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# DEPARTMENT OF THE ARMY Procurement Programs





# **Committee Staff Procurement Backup Book**

# **FY 1996 / 1997 BIENNIAL BUDGET ESTIMATE**

**OTHER PROCUREMENT, ARMY** 

**ACTIVITY 3, OTHER SUPPORT EQUIPMENT** 

#### **APPROPRIATION**

Date February 1995

Reports Control Symbol DD-COMP (AR) 1092

DISTRIBUTION STATEMENT A

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### OTHER PROCUREMENT, ARMY

### APPROPRIATION LANGUAGE

plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be nontracked combat vehicles; communications and electronics equipment; other support equipment; initial spare parts, equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractorowned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,256,601,000, to remain ordnance, and accessories therefor; specialized equipment and training devices; expansion of public and private acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of For construction, procurement, production, and modification of vehicles, including tactical, support and available for obligation until September 30, 1998.

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NTIS CRADING TAB OTIC TAB	NTIS CRA&I DTIC TAB Unannounced Justification	<b>1</b> 800
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### OTHER PROCUREMENT, ARMY

#### SECTION 3

### Comparison of Program Requirements and Financing

Comparison of FY1995 program requirements as reflected in the FY1995 President's Budget with FY1995 program requirements as shown in the FY1996 President's Budget. Comparison of FY1995 financing as reflected in the FY1995 President's Budget with FY1995 financing as shown in the FY1996 President's

Comparison of FY1994 program requirements as reflected in the FY1995 President's Budget with FY1994 program requirements as shown in the FY1996 President's Budget.

Comparison of FY1994 financing as reflected in the FY1995 President's Budget with FY1994 financing as shown in the FY1996 President's

COMPARISON OF FY 1995 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY 1995 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (in Thousands of Dollars)

Appropriation Other Procurement, Army	FY 1995 Requirements Per FY 1995 President's Budget	FY 1995 Requirements Per FY 1996 President's Budget	Increase or (Decrease)
Activity 1 - Tactical and Support Vehicles	559,579	555,669	(3,910)
Activity 2 - Communications and Electronics Equipment	1,554,699	1,584,270	29,571
Activity 3 - Other Support Equipment	575,955	528,890	(47,065)
	2,690,233	2,668,829	(21,404)

### **EXPLANATION BY ACTIVITY**

Activity 1 - Tactical And Support Vehicles - the net decrease (\$-3,910) resulted from Congressionally approved and below threshold reprogramming. Activity 2 - Communications and Electronics Equipment - the net increase (\$+29,571) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - the net decrease (\$-47,065) resulted from Congressionally approved and below threshold reprogramming.

# COMPARISON OF FY 1995 FINANCING AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET WITH FY 1995 FINANCING AS SHOWN IN THE FY 1996 PRESIDENT'S BUDGET (In Thousands of Dollars)

FY 1995 Financing Per FY 1996 President's Budget	2,875,029 2,668,829 206,200	(206,200) (5,100) 5,100
FY 1995 Financing Per FY 1995 President's Budget	2,866,833 2,690,233 176,600	(176,600) et plans
Appropriation Other Procurement, Army	Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less:	Anticipated Reimbursements Unobligated balance available to finance new budget plans Unobligated balance transferred to other accounts

	2,690,233
BUDGET AUTHORITY	Appropriation

2,668,829

COMPARISON OF FY 1994 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 1995 PRESIDENT'S BUDGET
WITH THE FY1994 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 1996 PRESIDENT'S BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation Other Procurement	FY 1994 Requirements Per FY 1995 President's Budget	FY 1994 Requirements Per FY 1996 President's Budget	Increase or Decrease)
Activity 1 - Tactical and Support Vehicles	743,588	751,885	8,297
Activity 2 - Communications and Electronics Equipment	1,701,354	1,710,414	090'6
Activity 3 - Other Support Equipment	443,624	433,156	(10,468)
	2,888,566	2,895,455	6,889

#### **EXPLANATION BY ACTIVITY**

Activity 1 - Tactical and Support Vehicles - The net increase (\$+8,297) resulted from Congressionally approved and below threshold reprogramming. Activity 2 - Communications and Electronics Equipment - The net increase (\$+9,060) resulted from Congressionally approved and below threshold reprogramming.

Activity 3 - Other Support Equipment - The net decrease (-\$10,468) resulted from Congressionally approved threshold reprogramming.

# COMPARISON OF FY 1994 FINANCING AS REFLECTED IN THE FY1995 PRESIDENT'S BUDGET WITH THE FY 1994 FINANCING AS SHOWN IN THE FY 1996 PRESIDENT'S BUDGET SUMMARY OF REQUIREMENTS (in Thousands of Dollars)

FY 1994 Financing Per FY 1996 President's Budget	2,983,409 2,895,455 87,954	(87,954)	(4,000) (400) (6,683) 5,100	0001 500
FY 1994 Financing Per Fin Fin FY 1995 Fresident's Budget Pres	3,191,166 2,888,566 302,600	(302,600)	iget plans nts ins uent	2.888.566
Appropriation Other Procurement, Army	Program Requirements (Total) Program Requirements (Service Account) Program Requirements (Reimbursable) Less:	Anticipated Reimbursements	Unobligated balance available to finance new budget plans Unobligated balances transferred to other accounts Reprogramming From/To Prior Year Budget Plans Unobligated Balances available to finance subsequent year budget plans Unobligated balance expiring	BUDGET AUTHORITY Appropriation

\*\*\*\*\*\*\*\*
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1 DATE: 093016 25 JAN 95

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

•

APPROPRIATION: OTHER PROCUREMENT, ARMY

LINE			(DOLS)			Ē	(THOUSANDS OF DOLLARS)	JF DOLLAR	(\$)		
Q	NOME	2	COST 1	FY 94. 0TY C	% COST	FY 95	25 Tang	FY 96	8	7	FY 97
5	(2)	į		; ;		;	3	÷	3	5	COST
•		3	3	3	(9)	3	(8)	6	9	(11)	(12)
	CHEMICAL DEFENSIVE EQUIPMENT										
<b>*</b> 107	SIMP COLL PROT EQUIP M20 (M97400)	<		134	1527						
* 10 <b>8</b>	COLL PROT EQUIP, NBC TEMPER, TENT M28 (SX8001)	<			4366		10236				
* 109	MASK, PROTECTIVE, NBC M40/M42 (MAS000)	<			34495		24927				
* 110	REMOTE SENSING CHEMICAL AGENT ALARM XM21 (M96800)	∞				156	18839				
* 11	IMPROVED CHEMICAL AGENT MONITOR (S02200)	<					1711				
* 112	AUTO CHEMICAL AGENT ALARM (ACADA) , XM22 (M98800)	•				160	2455				
* 113	DECONTAMINATE APP PUR DR LT UT M17 (M67400)	<		515	7228						
114	GEN SNK MECH:MTRZD DUAL PURP XM56 (M99103)	< .		2	0067	9	12410			R	13014
115	GENERATOR, SMOKE, MECH XM58 (M99107)	<						34	12698	አ	12050
116	GEN SET, SMOKE, MECH: PUL JET, XM157 (M99104)	⋖						170	5214	118	3614
* 117	RADIATION MONITORING SYSTEM (OPA-3) (MB3001)				8291						
* 118	JOINT BIOLOGICAL DEFENSE PROGRAM (MAOBOD)						20416				
	SUB-ACTIVITY TOTAL			•	20809		93454		17912		28478
	BRIDGING EQUIPMENT								!		3
119	RIBBON BRIDGE (MA8890)								3828		2777
	SUB-ACTIVITY TOTAL			•							7164
									3828		4472

\* Transferred to Defense in FY96 and beyond

\*\*\*\*\*\*\*UNCLASSIFIED\*\*\*\*\*\*
DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1 DATE: 093016 25 JAN 95 ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

APPROPRIATION: OTHER PROCUREMENT, ARMY

LINE			(DOLS) FY 96			Ē	(THOUSANDS OF DOLLARS)	F DOLLAR	S)			
	NOME	<b>e</b>	UNIT	FY 94. QTY CC	¢ cost	FY 95 QTY	25 COST	FY %	% TSICO	FY 97 OTY COST	74 Tags	
E	(2)	3	3	(5)	9		9	6	95	; E	5	
	ENGINEER (NON CONSTRUCTION)						•	•				
120	DISPENSER, MINE M139 (G39100)	<	953000	<b>%</b>	15933	5	16194		833	\$2	267	
121	METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)	•								. ×	6755	
	SUB-ACTIVITY TOTAL				15933		16194		556		11028	
	COMBAT SERVICE SUPPORT EQUIPMENT						-		}			
122	AIR CONDITIONERS VARIOUS SIZE/ CAPACITY (MF9300)	<			6142		<b>5</b> 862		3176		1520	
123	STANDARD INTEGRATED CMD POST SYSTEM (MX1010)	<b>60</b>		•	20250							
124	CHEM/BIO PROTECTIVE SHELTER (R12300)	•				5	6869					
125	SPACE HEATER (M19600)	<	5967			26	2812	290	1440	485	2410	
126	SOLDIER ENHANCEMENT (MA6800)	٠		÷	9200					•	) i	
127	FORCE PROVIDER (M80200)	<	6137500			8	10664	~	12275	~	12127	
128	REFRIGERATION EQUIPMENT (MASSOO)	<					2166		2562	l	2460	
129	ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)	<			2782		8277	٠	2222		27%	
	SUB-ACTIVITY TOTAL			•	38374	-	30064		21675	•	26722	
	PETROLEUM EQUIPMENT											
130	LAB PETROLEUM MODULAR BASE (M&8500)	<	2786000			-	2343	-	2786			
131	INLAND PETROLEUM DISTRIBUTION SYSTEM (MAS120)	<			566		3652		1115		1106	
132	HENTT AVIATION REFUELING SYSTEM (R21900)	<	26000			113	5962	2	246			

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DEPARTHENT OF THE ARMY
FY 96 PROCUREMENT BROGRAM
FY96 PROSIDENT BLOGET

EXHIBIT P-1 DATE: 093016 25 JAN 95

DATE: 093016

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

APPROPRIATION: OTHER PROCUREMENT, ARMY

LINE			(DOLS) FY 96			£	(THOUSANDS OF DOLLARS)	F DOLLARS	2)		
9	NOME	<b>e</b>	LIND	FY 94	74	F7 95	ž.	F7 %	8	FY 97	26
			COSI	<u>_</u>	COST	ΔŢ	COST	7	C0S1	7	COST
3	(2)	3	3	(2)	9	3	(8)	6	(10)	313	(12)
133	ITEMS LESS THAN \$2.0M (POL) (ML5330)	⋖			11050		1198		5537		9043
	SUB-ACTIVITY TOTAL				11316		17571		7866		10149
	WATER EQUIPMENT										
134	FWD AREA WTR POINT SUP SYSTEM (M18100)	<	18189			155	2711	148	2692		
135	SMALL MOBILE WATER CHILLER (SMMC) (M15700)	<	10214			185	1893	387	3953		-
136	ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)	<			4067		2882		2394		3089
	SUB-ACTIVITY TOTAL				4067		7599		9039		3089
	MEDICAL EQUIPMENT										
137	COMBAT SUPPORT MEDICAL (MN1000)				20751		19209		14310		16484
	SUB-ACTIVITY TOTAL				20751		19209		14310		16484
	MAINTENANCE EQUIPMENT										
138	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP) (M61500)	<	25042			81	2812	7	1778	8	1734
139	TOOL OUTFIT HYDRAULIC REPAIR 3/4 TRL MTD (G39200)	<				23	2084				
140	ITENS LESS THAN \$2.0M (MAINT EQ) (ML5345)	<			7018		1144		1450		1393
	SUB-ACTIVITY TOTAL				7018		6040		3228		3147
	CONSTRUCTION EQUIPMENT										
141	COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200)	<		109	13383						
142	ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	<	151382			31	5834	25	7115		

APPROPRIATION: OTHER PROCUREMENT, ARMY

EXHIBIT P-1 DATE: 093016 25 JAN 95

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

LINE	1164		(DOLS) FY 96			Ē	(THOUSANDS OF DOLLARS)	F DOLLARS			
9		2	COST	FY 94.	74 COST	FY 95	25 COST	FY 96	TSU	FY 97	7
€	(2)	(3)	3	(3)	9	8	9	. 6		; <del>{</del>	3 6
143	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (MO6105)					•		<b>5</b>	9638	<b></b>	8014
144	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (XÓ0800)	<						•	1987	^	1987
145	ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)	<			3954		3372		1981		397
	SUB-ACTIVITY TOTAL				17337		9506	•	21021		Aozut
	RAIL FLOAT CONTAINERIZATION EQUIPMENT										2
146	PUSHER TUG, SMALL (M44500)	<b>5</b>						-	3576	^	7152
147	FLOATING CRANE, 100-250 TON (M32400)	•								- د	14900
148	CAUSEUAY SYSTEMS (R97500)	<					866				
149	RAILWAY CAR, FLAT, 100 TON (M37000)	<	17767	187	15057	241	11534	238	11767	262	15042
150	ITEMS LESS THAN \$2.0M (FLOAT/ RAIL) (ML5355)	< <			1999		2230		3602		5957
	SUB-ACTIVITY TOTAL			•	17056	-	14757	•	18945	•	43051
	GENERATORS										
151	GENERATORS AND ASSOCIATED EQUIP (MA9800)	<			24797		25206		13761		15715
	SUB-ACTIVITY TOTAL			•	24.797	•	25206	•	13761	•	15715
	MATERIAL HANDLING EQUIPMENT										
152	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	< .						33	10928		
153	ALL TERRAIN LIFTING ARTICULATING System (M41800)							112	14403	157	16589
154	ITEMS LESS THAN \$2.0M (MHE) (ML5365)	<			5816		7697		2843		2772

DEPARTMENT OF THE ARMY
FY 96 PROCUREMENT PROGRAM
FY96 PRESIDENT BUDGET

EXHIBIT P-1 DATE: 093016 25 JAN 95

APPROPRIATION: OTHER PI

ACTIVITY: 3. OTHER SUPPORT EQUIPMENT
IRMY
PROCUREMENT, ARMY

EXHIBIT P-1 DATE: 093016 25 JAN 95 ACTIVITY: 3. OTHER SUPPORT EQUIPMENT

APPROPRIATION: OTHER PROCUREMENT, ARMY

LINE	ITEM		(DOLS) FY 96			5	SQ	F DOLLAR	S)			
2	NOMENCLATURE	2		FY 94	;	FY 95		FY 96		FY 97	*	
				_	- S	7	<u>.</u>	7	=	QT.	COST	
E	(5)	3	(4)	(2)	9	3	_	8	<b>~</b>	33	(12)	
168	SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				4928		10442		9165		14090	
169	ITEMS LESS THAN \$2.0M (OTH SPT Eq) (ML5390)				1001							
5	OPA INITIAL SPARES (MY0035)						67960					
171	TRACTOR VAPOR (MA8975)								2223		107	
172	NATURAL GAS UTILIZATION (MA9760)				10000		2482					
173	CLOSED ACCOUNT ADJUSTMENTS (MA9999)				-							
	SUB-ACTIVITY TOTAL				108191		147379		63970		72379	
	ACTIVITY TOTAL				433156		529590		351224		481214	

# PROCUREMENT PROGRAM INSTALLATION SUMMARY (TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Landing Craft, Mech 8T (SLEP)	1.2									17
Landing Craft, Mech 8T (Equip Upg)			0.2	0.4						9.0
Floating Machine Shop (Modernize)	•	1.4								1.4
Crane Barge, 100T (Modernization)		13								13
Barge Deck Cargo (Modernization)		0.3								0.3
Logistics Support Vessel (Modern)	•	4.1								1.4
Light Amphib Resup Carg 60 (SLEP)			•	6.0						6.9
Tug 100' (Equip Upgrade)			3.0	2.0						8.0
Marine CEN Equip Upg (Watercraft)				0.6						9.0
Distrib Illumin Syr, Elec (Cir Break)	0.3									0.3
Landing Cft Udil 2000 (Halon Remo)		1.0								1.0
ROWPU Barge (Halon Removal)		0.2								07
Landing Cft Util 1600 (Halon Remo)		0.2								0.2
SUBTOTAL FOR BA 3	1.5	5.8	3.2	3.9	•	•	•	•		14.4

# PROCUREMENT PROGRAM INSTALLATION SUMMARY (TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY95 FY96	FY97	FY98	FY99	FY00	FY01	TC	TOTAL
Logistic Sup Vessel (Halon Remov)		0.2								07
Large Tug (Halon Removal)		0.2								07
AN/TSC-85 (Air Conditioner/CFC)	0.3	0.3								9.0
AN/TSC-93 (Air Conditioner/CFC)	<b>6.5</b>	0.5	-							9
AN/ASM-189 (Air Conditioner/CFC)	3.5	4.0								3.0
AN/ASM-190 (Air Conditioner/CFC)	1.9	0.1								7.0
AN/ASM-141 (Air Conditioner/CFC)	0.2									63
ESC-146 (Alr Conditioner/CFC)	6.1	0.5								. 3
ESC-38 (Air Conditioner/CFC)	0.3									63
AN/ASM-82 (Air Conditioner/CFC)	0.3	4.0								2
Land Cft Util 2000 (Refrig/CFC)		6.9								
Logistic Sup Vessel (Reflg/CFC)		7.0								3
Land Cft Util 1600 (Refrig/CFC)		2								3
SUBTOTAL FOR BA 3	13.1	4.2	•	•	•	•	•	•		17.3

Page 2 of 3

Exhibit P-1N Procurement Program Installation Summary

# PROCUREMENT PROGRAM INSTALLATION SUMMARY (TOA, Dollars in Millions)

SYSTEM/MODIFICATION	FY94 & Prior	FY95	FY96	FY97	FY98	FY99	FY00	FY01	JC	TOTAL	
Tug 128' (Refhig/CFC)	•	0.2								0.2	
Tug 100' (Refrig/CFC)		9.6								9	
Tug 65' (Refrig/CFC)		0.3								0.3	
Crane 100 Ton (Refrig/CFC)		4.0								9	
Crane 60 Ton (Refrig/CFC)		0.04								0.0	
Floating Machine Shop (Refrig/CFC)		0.1								0.1	
Refrig Equip (Power Generation)			0.7							0.7	
Laundry Unit (Laundry Water Reuse)			0.1							0.1	
Recompres Chamber Diving (E-Upg)		0.3	9.							0.7	
Deploy Med Sys (Air Condition Upg)	0.02									0.02	
Micro-Climatic Cooling System		1.6	13							2.9	
System Block Phase 3				1.8	1.9	•	0.3	0.5		4.5	
SUBTOT BA 3 (P 3/3) SUBTOT BA 3 (P 2/3) SUBTOT BA 3 (P 1/2)	0.02 1.4 13.1	3.34 5.8 4.2	32.0	3.9 0.0	6.0	000		6. 0 0		10.36 14.4 17.3	
TOTAL FOR BA 3	14.62	13.34	5.7	5.7	1.9	•	0.3	0.5		42.06	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

### BUDGET ITEM JUSTIFICATION SHEET

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment

Coll Prot Equip, NBC TEMPER, TENT M28

P-1 ITEM NOMENCLATURE

(SX8001) FY01 FY99 8 ĭ Ŧ FY 96 FY 95 FY 94 COST(IN MILLIONS) **QUANTITY** 

DESCRIPTION: The M28 is a highly transportable collective protective liner system for the Tent Extendable Modular Personnel (TEMPER). The modular system consists of: (1) entry/exit airlock(s), (2) liquid/vapor agent resistant liner sections, (3) support kit(s) containing a motor, blower, ducting and ancillary equipment, (4) recirculation filter(s) inside the shelter and (5) NBC filter(s). A tunnel airlock is available for litter patient entry/exit. Like the TEMPER, the M2B components are complexed into different size systems and can be joined to form complexes. There are six different configurations: 16, 32, 48, or 64 foot sections, patient processing and 16 foot extension sections.

The Hospital Unit Base (HUB) configuration will be used to procure the required quantities of MZB components necessary to chemically biologically harden each Chemically Protected Deployable Medical System (CP-DEPMEDS). One HUB requires the following MZB components: ten 16 foot sections, fifteen 64 foot sections, three patient processing units, 10 International Organization for Standardization (ISO) shelter adapters, 30 vestibules, 25 additional support kits, and 25 additional filters (HSFCs).

Pages

Page

exHIBIT P-40

OF 5

I TEM NO

DD Form 2454, JUL 88

P-1 SHOPPING LIST 108 PAGE NO

Addivity Tilekno.  Other Procurement, Coll Prot Equip, NBC TEMPER, Code Unit Cost Total Cost Unit Cost Unit Cost Total Cost Unit Cost Total Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Total Cost Unit	WEAPONS SYSTEM COST ANALYSIS	A Approprie	otion/Budget			1,000,00				
Other Procurement,   Colf Prot Equip, NBC TEMPER,   St. Louis, MO   Army 3, Other Spifes/Popular Name   Army 3, Other Spifes   Code   Lint Cost   Total Cost	EXHIBIT (P.5)			9A .G	apon	(SX8001)	C. Manufac	ture Name		D. Date
Other Procurement,   Coll Prot Equip, NBC TEMPER, St. Louis, MO    Army 3, Other Spt Equip   TeNT M28   Se By1   Code   Lint Cost   Total Cost   Unit Cost   Unit Cost   Total Cost   Unit Cost   Total Cost   Unit Cost   Total Cost   Unit Cost   Total Cost   Unit Cost   Unit Cost   Total Cost   Unit Cost   Unit Cost   Total Cost   Unit Cost   Unit Cost   Unit Cost   Total Cost   Unit Cost   Unit Cost   Unit Cost   Unit Cost   Unit Cost   Total Cost   Unit Cost   U		Activity	Title/No.	Model/Se	ries/Popular N	lame	Plant City/S	tate Location		Month/Year
Gode		Other Pro	curement,	Coll Prot E	quip, NBC	TEMPER,	St. Louis, MC			Feb-95
Code   Unit Cost   Total Cost   Unit C	Weapons System	Ident	94 PY		DEN I MZ	1	77.00	į		
9,916 50 / 496 11,708 130 / 1522 28,856 75 / 2164 27,062 195 / 5277 17,403 15 / 261 21,000 39 / 819 280 50 / 14 300 130 / 39 660 150 / 99 715 390 / 279 3,480 125 / 435 3,775 325 / 1227 547 556 299 340 510 236 4,366 10,236	Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	97 BY2	10 de
9,916 50 / 496 11,708 28,856 75 / 2164 27,062 17,403 15 / 261 21,000 280 50 / 14 300 660 150 / 99 715 3,480 125 / 435 3,775 51 51 64,366 TEM NO 108									1800	Olai Cosi
9,916 50 / 496 11,708 28,856 75 / 2164 27,062 17,403 15 / 261 21,000 280 50 / 14 300 660 150 / 99 715 3,480 125 / 435 51 51 51 51 64,366 TEM NO 108	F. Mardware	<b>∢</b>								
28,856 75/2164 27,062 17,403 15/261 21,000 280 50/14 300 660 150/99 715 3,480 125/435 3,775 547 547 547 547 548 547 649 660 150/99 715 775 775 775 775 775 775 775 775 7775			9,916		11,708	130 / 1522				
280 50 / 14 300 660 150 / 99 715 300 660 150 / 99 715 3,775 299 7775 51			28,856		27,062	5				
660 150 / 99 715 3,480 125 / 435 3,775 299 299 51 51 51 61 61 61 61 61 61 61 61 61 61 61 61 61			280	•	300			·		
547 299 299 51 51 4,366	e. Vestibules f. Support Kits		660 3 480	150 / 99	715	390 / 279				
299 51 4,366	Engineer			547	,	556				
51 4,366				299		340				
4,366	4. First Article Test (FAT)(Contractor)			51		177				· · · · · · · · · · · · · · · · · · ·
4,366				;						
4,366								-		
4,366										
4,366 ITEM NO 108						,		·		
4,366 ITEM NO 108										
4,366 ITEM NO 108										
108	TOTAL			4,366		10,236				<u> </u>
		ITEM NO 1	90			AGE 2 of 5				

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Required | When Avail

Avail Now

Cost

YES

Jun-95

May-94

AMCCOM

C/FP

Production Prod Inc.

c. Patient Process

b. 64 ft Sys

a. 16 ft Sys

**FY94** 

d. ISO Adapter

f. Support Kits

e. Vest

c. Patient Process

b. 64 ft Sys

a. 16 ft Sys

9,916 28,856 17,403

50 75 15

280 99 3,480

50

125

150

35,689 31,054

56 67 15

14,641

Sep-92

Dec-90

**AMCCOM** 

SS/FP

ILC, Frederica, DE

and Location Contractor

I. Hardware

**FY91** 

Fiscal Year

Cost Element

YES

Dec-96

Jun-95

AMCCOM

C/FP

Unknown

c. Patient Process

b. 64 ft Sys

a. 16 ft Sys

FY95

d. ISO Adapter

e. Vest

Support Kits

11,708 27,062 21,000 300 715 3,775

130 195 39 390 325

876

287

Oct-91

Jan-91

**AMCCOM** 

Option

Donaldson, Inc. Minneapolis, MN

2. Filter

lf Yes,

Spec Rev

Specs (SX8001)

Coll Prot Equip, NBC TEMPER, TENT M28

Quantity

Date of First Delivery

Award

Contracted જ

Cost Method & Type

Other Procurement, Army 3 - Other Support Equipment

B. APPROPRIATION/BUDGET ACTIVITY

Date

C. P-1 ITEM NOMENCLATURE

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

Feb-95

A. DATE

PAGE NO 3 of 5
ITEM NO 108

Filters were procured under separate contract and are GFE.

D. Remarks

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Other Other	S dd	ort Eq	Other Support Equipment	<b>-</b>											. ই	II Prot	Coll Prot Equip, NBC TEMPER, TENT N28	BC TEMP	YER, TEH	NT M28												
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유			& LOCATION	3	,		3	TAUDE.	E .		İ	REACH MAX	P §	F	ADMIN LEAD TIME	AD TIME				T	₹ ₹	F 8	the parameter	it ient v of	proce	foot, and the patient process items and are required for 5 HUBs. The FY95 quantity of 364 is required for 14 HUBs.	All and	a z	requir	rg Fo	, <u>₹</u>	
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(SX8001) AUG SEP OCT NOV DEC JAM FEB MAR APR MAY JUM JUL AUG SEP OCT NOV DEC JAM FEB MAR APR MAY JUM JUL AUG SEP OCT NOV DEC JAM FEB MAR APR MAY JUM JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL ANG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL ANG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN DATE February 1995 8 CALENDAR YEAR 8: FISCAL YEAR REMARKS Coll Prot Equip, NBC TEMPER, TENT M28 TOTAL AFTER 1 OCT 8 CALENDAR YEAR 8 ₽ MANUFACTURING A P-1 ITEM NOMENCLATURE PROCURENENT LEAD TIME FISCAL YEAR **6** 7 PRODUCTION SCHEDULE ADMIN LEAD TINE AFTER 1 OCT PRIOR 1 OCT 6 45 45 **£**2 INITIAL REORDER 45 UNCLASS 45 45 45 97 45 REACH MAX AFTER D DAY CALENDAR YEAR 5 45 45 **£** FISCAL YEAR 97 45 45 MAXIMUM 2 2 23 g 8 PRODUCTION RATES BAL DUE AS OF 36 爻 1-8-5 8 웂 3 ACCEPT PRIOR TO 1 OCT 140 HINIM **E** 8 20 路 76 PROGRAM QUANTITY 28 ž MANUFACTURERS MANE APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment ጆጜ TOTAL MONTHLY PRODUCTION 3 Production Products にな REPORTAR) 1092 78 **ω ω α >** < < Unknown ¥ ă FACILITY NO FACILITY NO

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P-1 SHOPPING LEST ITEM NO 108 PAGE NO 5

00 Form 2445, JUL 87

EXHIBIT P-21

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092 SYMBOL	BUDGET		TEM JUSTIFICATION SHEET	ION SHEET		DATE February 1005	Jary 1005	
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE	MENCLATURE				
Other Procurement: Army 3 Other Support Equipment			Mask, Prote	Mask, Protective, NBC M40/M42				VAR SOUD
	EVO/.	JON J						Coocuit
		1193	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST(IN MILLIONS)	34.5	24.9						
DESCRIPTION								

doffing the hood without removing the mask. The M40 masks were designed to be compatible with and use the NATO canister in a face mounted configuration worn on either the left or right cheek. The M42 mask is worn in the combat vehicle with a carrier worn around the waist. The mask is connected to the canister by means of a hose and a second hose connects the canister to the combat vehicle internal air supply. The M42A1 incorporates a canister inter-operability system that The W40/M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is mounted on the facepiece either on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40/M42 masks will replace the M17, M25A1 and M9A1 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40/M42 masks to the M40A1/M42A1 configuration. The improvements included a quick-doff hood/second skin (QDH/SS). The Quick-Doff Hood allows allows the use of NATO canisters in the canister carrier system. The M41 Protection Assessment Test System (PATS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PATS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation rucleus counter (CNC).

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE

Cond to and		EXHIBIT P-40
P-1 SHOPPING LIST	ITEM NO 109 PAGE NO 1 OF 12	
73/6 74/8	70 roim 2434, JUL 88	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092	0 N 8	BUDGET ITEM J	EM JUSTIFICATION SHEET	ONSHEET		DATE February 1995	uary 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3	stivity 3		P-1 ITEM NOMENCLATURE	ENCLATURE				
Other Support Equipment			Mask, Chem B (M40/M40A1)	Mask, Chem Biological Protective Field (M40/M40A1)	re Field			(M99600)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	192300	135438						
COST(IN MILLIONS)	28.1	19.3						

for the mask and is mounted on the facepiece either on the left or right side as desired by the wearer. A front voicemitter is used for face-to-face communication and the side voicemitter used for communications with telephone and radio handsets. The M40 mask will replace the M17 and M941 series masks. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M40 mask to the M40A1 configuration. The M40A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M40 and M40A1 masks were designed to be compatible with and use NATO canisters. The canister is the air filtering medium DESCRIPTION: The M40 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE

Page of Pages	EXHIBIT P-40
P-1 SHOPPING LIST	ITEM NO 109 PAGE NO 2 OF 12
DD Form 2454, JUL 88	•

<b>、                                    </b>	A. Appropriation/Buc	Appropriation/Budget Activity Title/No	B. Weapon	bon hou		C. Manufacture Name	ture Name		D. Date
	Other Spt Equip	:: Army 3 Equip	Model/Series/Popular Name Mask, Chem -Bio Prot Field (M40/M40A1)	Model/Series/Popular Name ISK, Chem -Bio Prot Fi (M40/M40A1)	me Field V1)	Plant City/State Location ILC, Frederica, DE MSA, Esmond RI	ate Location 1, DE 1 RI		Month/Year Feb-95
vveapons System Cost Elements	ldent. Code	94 PY Unit Cost	Qty Total Cost	95 CY Unit Cost	Oty Total Cost	96 BY1 Unit Cost	Oty Total Cost	97 BY2 Unit Cost	Oty Total Cost
M40A1 Protective Field Mask Hardware Producer I	∢	125 156	14,535 11,973	103	14,006	1			
Canister Production - Special Tooling Engineering Support ECP's			600 100 900 21		1,155 2,020 1,332 800				•
QUANTITY: (IN THOUSANDS) Producer I			115.4		135.4				
TOTAL			28,129		19,313				

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PAGE 3 of 12

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BUDGET PF	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLAI	VNING EXHIB	IT (P-5A)					A. DATE	
VIGOCOOV O	TO TO TO THE PARTY OF THE PARTY								Feb-95	
B. APPROPRIA	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE	MENCLATURE				
Other Proc. Arm	Other Proc. Army 3, Other Spt Equip				Mask, Chem Biok	Mask, Chem Biological Protective Field (M40/M40A1)	ield (M40/M40A	£		
Cost Element Fiscal Year	Contractor and Location	Cost Method	Contracted	Award	Date of First	Quantity	Unit	Specs	Spec Rev	If Yes,
M40A1 FY93 Ontion									nalinbay	Wilen Avail
Producer II	ILC, Frederica, DE MSA Femond RI	C/FP	AMCCOM	Jul-94	Aug-95	e (	125	Yes	Š	
FYQA	12 (20)	5		48-IDC	Aug-95	12	155	Yes	Š.	
Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Mar-94	Nov-94	115.4	125	Yes	Ž	
Producer II	MSA, Esmond, Ri	C/FP	AMCCOM	Mar-94	Nov-94	76.9	156	Yes	°Z	
FY95										
Producer II	MSA,Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	135.4	103	Yes	ž	
		-	•							
SHITITIES	OUANTITIES IN THOUSANDS									
D. Remarks										

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ITEM NO 109

REPORTS CONTROL SYMBOL DD-CCMP(AR)1092	BUDGET	-	EM JUSTIFICATION SHEET	ONSHEET		DATE February 1995	uary 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NOMENCLATURE	ENCLATURE					
Other Support Equipment			Mask, Tank (M42/M42A1)					(M99400)	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01	
QUANTITY	27864	11666							

DESCRIPTION: The M42 mask consists of a form fitting facepiece with rigid binocular type lenses attached to the facepiece. The canister is the air filtering medium for the mask and is attached to the facepiece by a hose. The M42 mask has a microphone to allow communication in the high noise environment within the combat vehicle. A front voicemitter is used for face-to-face communication and the side voicemitter used for communication and the side voicemitter used for communications with telephone and radio handsets. The M42 mask will replace the M2541 series mask. They are designed to protect the face, eyes and respiratory tract against field concentration of chemical and biological agents. A preplanned product improvement was incorporated in FY93 to upgrade the M42 mask to the M42A1 configuration. The M42A1 mask incorporates a quick-doff hood that allows doffing the hood without removing the mask. The M42 mask is worn in the combat vehicle with a canister in a carrier worn around the waist. Hoses connect the mask to the cambat vehicle internal air supply. The M42A1 incorporates a canister inter operability system that allows the use of NATO canisters in the canister carrier system.

6.4

COST(IN MILLIONS)

Page of Pages	07-d LIBIHX3
P-1 SHOPPING LIST	ITEM NO 109 PAGE NO 5 OF 12
88 IIII 7572 m303 QQ	

WEAPONS SYSTEM COST ANALYSIS	A. Appropriation/Budget	ion/Budget	R Weapon	5		omeN omined new	And Mamo		4
EXHIRIT (D.S.)	niida iddi.	198000	D. 4449	Ē		C. Manufact	ure Name		D. Date
(c-a) Hain (r-b)	Activity Title/No.	itle/No.	Model/Serie	Model/Series/Popular Name	Je Je	Plant City/State Location	ate Location		Month/Year
	Other Procurement,	urement,	CO.	(M42/M42)	<b>1</b> 3	ILC, Frederica, DE	, DE		Feb-95
	Army 3, O	Army 3, Other Spt Equip	di			MSA, Esmond, RI	<u>.</u> .		
Weapons System	ldent.	94 PY	Qty	95 CY	άţ	96 BY1	δţ	97 BY2	ξö
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
M42A1 Tank Mask Hardware Producer I	∢	193 248	3,224	166	1,937	•			
Canister Production - Special Tooling Engineering Support ECP's	4-144		197 50 100 32		100 308 200 69				,
QUANTITY: (IN THOUSANDS) Producer I			16.7		11.7				
TOTAL			6,366		2,614				,
ITEM NO 109	109			PAGE 6 of 12					

TEM NO 109

PAGE 6 of 12

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ITEM NO 109

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B. APPROPRIA	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENC! ATURE	AENC! ATURE			26-09-1	
Other Procureme	Other Procurement: Army 3 - Other Support Equipment	quipment	į		Mask Tank (M42/M42A1)	M42A1)				
Cost Element	Contractor	Cost Method	Contracted		Date of First	Quantity	Unit	Specs	Spec Rev	If Yes,
riscal real	and Location	& lype	By	Date	Delivery		Cost	Avail Now	Required	When Avail
M42A1 FY94 Producer I	ILC, Frederica, DE	C/FP	AMCCOM	Mar.94	70 X X	1 9 7				
Producer II	MSA, Esmond, RI	C/FP	AMCCOM	Mar-94		11.2	248	Yes	2 2	
FY95 Producer II	MSA, Esmond, RI	C/FP	ACALA	Jan-95	Oct-95	11.7	166	Yes	Š	
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_       QUANTITIES	QUANTITIES IN THOUSANDS		V ****	· <u>-</u>						
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D. Remarks										

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Form 2445, Jul 87 P-1 900P-116 LIST  Form 2445, Jul 87 P-1 900P-118 TO 109 Pub2 80 B OF 12 UNCLASSIFIED	2	-	Merrora	(180)				Ш	Ц	H			F. C.	1	Ë	1~	=	T	2	T																					
Form 2445, JAL 87 P-1 SERDEPING LIST P-1 SERDEPING LIST Page No. 109 PAGE NO. 8 OF 12 Page		$\dashv$							Ц	ert	H		Ц					1		T																					
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JUSTIFICATION SHEET UNCLASSI I T E M BUDGET

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

P-1 ITEM NOMENCLATURE M41 Protection Assessment Test System (PATS)

DATE: February 1995

(M95800)

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment

	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		500						
COST(IN MILLIONS)		3.0						
DESCRIPTION: The M41 Protective Mask Fit Validation System (PMFVS) is a non-developmental item which consists of a small portable instrument designed to provide the soldier with a simple accurate means of validating the facepiece fit of their protective mask. The PMFVS is approximately 200 cubic inches in size, 4 pounds in weight, and is based on a miniature condensation nucleus counter (CNC). The CNC operates by continuously sampling and counting individual particles that occur naturally in the surrounding air. The PMFVS measures the concentration of these particles both inside and outside the mask and from these values calculates a fit factor (FF). The FF is a measure of the quality of the faceseal. The PMFVS will ensure that the soldier's assigned mask is properly sized and operational.	isk Fit Validation S is of validating the condensation nucle The PMFVS measures of the quality of th	System (PMFVS) is a facepiece fit of the eus counter (CNC). the concentration on the faceseal. The PM	non-developmental items protective mas The CNC operates by of these particles the NEVS will ensure the	tem which consists k. The PMFVS is agreed to continuously sample both inside and outside the soldier's ass	of a small portable pproximately 200 cub ling and counting in side the mask and fr	instrument ic inches i dividual pa om these va rly sized a	designed to n size, 4 po nrticles that lues calcula ind operation	provide the unds in occur tes a fit al.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE

P-1 SHOPPING LIST PAGE NO 109 I TEM NO

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**UNCLASSIFIED** 

EXHIBIT P-40 φ Page

WEAPONS SYSTEM COST ANALYSIS	A. Appropriation/Rudget	tion/Rudget	, W. O						
EXHIBIT (P-5)		106mm	0. 446			C. Manufacture Name	ture Name		D. Date
	Activity 1 itle/No.	itle/No.	Model/Ser	Model/Series/Popular Name	ıme	Plant City/St	Plant City/State Location		Month/Year
	Other Proc: Arm	Other Proc: Army 3	M41 Protect	M41 Protection Assessment	sment	TSI, Inc.		,	Feb-95
Weapons System	Ident Ident	E-duip 04.00	lest System (PATS)	m (FAIS)		St. Paul, MN			
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Otly 500 Total Cost	96 BY1	Total Cost	97 BY2	Ş,
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2. Battery (BA-5847/U)	. «				4.1				
3. Isopropyl Alcahol (99 5% grade)				) ,	<u>C</u>				
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4. Engineering Support (Gov't) (In-house)					412				
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ITEM NO 109				PAGE NO 10 of 12	3000 0 of 12				
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BUDGET PR	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLA	NING EXHIB	IIT (P-5A)					A. DATE Feb-95	
B. APPROPRIAT	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE	MENCLATURE				
Other Proc, Army	Other Proc, Army 3, Other Spt Equip				M41 Protection A	M41 Protection Assessment Test System (PATS)	System (PATS)			
Cost Element	Contractor	Cost Method	Contracted	Award	Date of First	Quantity	Unit	Specs	Spec Rev	If Yes,
Fiscal Year	and Location	& Type	Ву	Date	Delivery		Cost	Avail Now		When Avail
FY95	TSI, Inc. St. Paul, MN(PMFVS) SS/FP Unknown (Battery)* C/FP TBD (Alcohol)* C/FP	SS/FP C/FP C/FP	ACALA CECOM ACALA	Jul-95 Jul-95 Jul-95	Nov-95 Nov-95 Nov-95	500 500 500	5,100 30 45	Yes Yes Yes	2 ° 2	
D. Remarks	D. Remarks *Items required to operate the PATS	rate the PATS								
		ITEM NO 109	6			PAGE 11 of 12	12			

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2	SE	2601											<u>م</u>	RODUCTION	1 C T	H 0 H		HE 0	SCHEDULE												ă	DATE:	February 1995	7. %	×			
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	Procu Suppo	ION / E irement irt Equ	BUDGET t: An	ACTIN my 3	YTIA													7.₹	P-1 ITEM MOMEMCLATURE M41 Protective Mask Fit Validation System (PMFVS)	HOMEN	CLATUR	1. K	at ida	tion S	ys te	(PRF)	<u>S</u>			į	4							1
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FACILITY				<b>E</b>	Program quantity	MANTI	<u>-</u>				FISCAL YEAR 95	YEAR	8						=	SCAL	FISCAL YEAR 96	مو						E	SCAL	FISCAL YEAR 97	_						_	1
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

JUSTIFICATION SHEET LTEM BUDGET

DATE February 1995

Other Procurement, Army, Budget Activity 3, Other Support Equipment APPROPRIATION / BUDGET ACTIVITY

(M96800) FY01 FY00 FY99 FY96 18.8 FY95 156 FY94 COST(IN MILLIONS) QUANTITY

Remote Sensing Chemical Agent Alarm XM21

P-1 ITEM NOMENCLATURE

DESCRIPTION: The XM21 Remote Sensing Chemical Agent Alarm (RSCAAL) is an automatic scanning, passive infrared (IR) sensor which detects nerve and blister agent vapor clouds at a stand-off distance of up to five kilometers. Because the XM21 technology can remotely detect changes in the infrared spectrum caused by an agent cloud, the RSCAAL can detect agent without having to be in the agent as is necessary with "point" detectors. The XM21 Alarm system consists of a detector, tripod, and a transit case. Independent power sources as well as vehicle power through the use of a North Atlantic Treaty Organization (NATO) adapter may be used for the XM21 Alarm. The XM21 Alarm will be used for point and area surveillance missions in both vehicle-mounted and tripod-mounted roles.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

CHEMICAL/BIOLOGICAL DEFENSE PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO

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Page

EXHIBIT P-40

WEAPONS SYSTEM COST ANALYSIS	A. Appropria	. Appropriation/Budget	B. Weapon	Logic		C. Manufacture Name	ture Name		D. Date
EXHIBIT (P.5)	A Chiniba T	) WOMEN	o Office of A	200/Daniel 1					
	ACTIVITY LITTE/NO.	IIIe/NO.	MODE!/Se	Model/Senes/Popular Name	ame		Plant City/State Location		Month/Year
	Other Proc: Army 3	: Army 3	Remote Se	Remote Sensing Chemical Agent	mical Agent		Brunswick		Feb-95
100000000000000000000000000000000000000	Onlier Support Equip	dinha 1100		Alarm, AMZ	2		Deland, FL		
Weapons System	Ident.	94 PY	Ž	95 CY	Oty 156	96 BY1	ğ	97 BY2	ģ
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. XM2† Hardware	80			101,263	15,797				
2. Engineering Support (Contractor)					750				
3. Engineering Support (Gov't)					800				
4. Quality Assurance Support					200				,
5. Documentation					29				
6. Cost Bearing ECPs					614				-
7. Warranty			-		311				<u> </u>
TOTAL					18,839				
		ITEM NO 110	10		PAGE NO 2 of 5	of 5			

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Contracted   Award   Date of First   Quantity   Cost   Avail Now   Required	APPROPRIA	A APPROPRIATION/RIDGET ACTIVITY				O P. 4 ITEM NO	MENC! AT! IDE			Feb-95	
Contracted   Award   Date of First   Quantity   Unit   Specs   Spec Rev	Dither Proc: Arm	y 3, Other Spt Equip				C. r-111 Em NO Remote Sensing	MENCLAI ONE Chemical Agen	t Alarm XM21			
By   Date   Delivery   Cost   Avail Now   Required	Cost Element	Contractor	Cost Method	Contracted	Award	Date of First	Quantity	Unit	Specs	Spec Rev	If Yes,
CBDCOM   Feb-95   Dec-95   156   101,263   Yes	Fiscal Year	and Location	& Type	By	Date	Delivery		Cost	Avail Now	Required	When Avail
Brunswick SS/FP AMCCOM Jul-92 Apr-95 18 150,000 Yes  Brunswick Option CBDCOM Feb-95 Dec-95 156 101,263 Yes  Bland, FL  Brunswick April 184 After test, items will be returned to contractor for refurbishment.  FY92 items were received in Nov 1993 for PQT & FAT. After test, items will be available for fielding in Apr 95. The refurbishment is part of the FY92 contract.	1. Hardware										
ion CBDCOM Feb-95 Dec-95 156 101,263 Yes  193 for PQT & FAT. After test, items will be returned to contractor for refurbishment.  1993 for PQT & FAT. After test, items will be returned to contractor for refurbishment.  1993 for PQT & FAT. After test, items will be returned to contractor for refurbishment.	FY92		SS/FP	AMCCOM	Jul-92	Apr-95	18	150,000			
1993 for PQT & FAT.	FY95		Option	СВОСОМ	Feb-95	Dec-95	156	101,263			<i>(</i> **
1993 for PQT & FAT.						-					
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1993 for PQT & FAT.											
1993 for PQT & FAT. e for fielding in Apr 95.											
1993 for PQT & FAT. e for fielding in Apr 95.											
	D. Remarks	FY92 items were recei Refurbished items will	ייין	3 for PQT & F r fielding in Ap		st, items will trubishment is	e returned to part of the F	contractor for Y92 contract.	or refurbisi	ment.	

ITEM NO 110

Part 115th Nometic Activity   Approximation of the Sequence of Sequence of Agency (Activity Option Sequence); A many 3051   Activity Option Sequence of Sequence of Agency (Approximation Sequence); A many 3051   Activity Option Sequence of Sequence of Agency (Application Sequence); A many 3051   Activity Option Sequence of Sequ	CODE "8" 1	T E #	SCRIPTION	DATE February 1995	995			REPORT CONTROL SYMBOL DD-COMP(AR)1092	SYMBOL 1092
TOTAL BOTE CHANGE IN NO TEST STATUS  CONTINCTOR NEEDS TO SERVICE USE TOTAL STATUS  CONTINCTOR NEEDS TO SERVICE USE TOTAL	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NOMENCI.	ITURE Iemical Agent Al	larm XM21			COBYONS
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COMPONENT   EACH (DIEE)   PLANACHIMA   New York (TUP)   PLANACHIMA   PLANA					CHEDULE DATE				
THIN CAPE TIEST & EARL (OTES   PLANA/ACTUML   May 90 (TV)   May 90 (TV			CURRENT	LAST REPORTED			REASON FOR DE	LAY	
AND FORT ITEM 25 TO BE REPLACED  NONE  His is a new capability.  XTENT OF IMPROVEMENT OWER ITEM 25 EACH TO BE REPLACED  SPECIAL OFFICENCY MANE  CONTRACTOR WANE  CONTRACTOR WANE  CONTRACTOR WHO PROTEE FUNDING PROFILE (\$ 1M MILLIONS)  CONTRACTOR WANE  CONTRACTOR WANE  CONTRACTOR WANE  Deland, FL  System  TOTAL ROTEE FUNDING  TOTAL CONTRACTOR WANE  Date tripold mounted OT and TOTAE completed.  Deland 107AE Completed.  EXMISSION 110 PAGE WO 4 OF 5  EXMISSION 1	^	^	(T) May 94 (T) May 94						
NITE IS a new capability.  XTENT OF IMPROVEMENT ONER ITEM(2) ENDITHMENT TO BE REPLACED  CONTRACTOR NAME  CONTRACTOR NAME  CONTRACTOR NAME  CONTRACTOR NAME  CONTRACTOR NAME  CONTRACTOR NAME  TOTAL ROIZE FUNDING  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  Date whicle mounted OT and lorde completed.  EMMIBIT P-19  Date whicle mounted OT and lorde completed.  EMBIBIT P-19	ESTIMATED DATE OF APPROVAL FOR SEI	1	Mar 92	1					
Note the capability.   Note the capability for stand-off detection of chanical agent vapors.   Note the capability for stand-off detection of chanical agent vapors.   Note the contract of the capability for stand-off detection of chanical agent vapors.   Note the contract of the capability for stand-off detection of chanical agent vapors.   Note the contract of the capability for stand-off detection of chanical agent vapors.   Note the contract of the capability for stand-off detection of chanical agent vapors.   Note the capability for stand-off detection of chanical agent vapors.   Note the capability for stand-off detection of chanical agent vapors.   Note the capability for stand-off detection of chanical agent vapors.   Note the capability for stand-off detection of changes of the capability for the capability f	EQUIPMENT ITEM(S) TO BE REPLACED	NONE							
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EVELICIONERIT CONTRACT INFORMATION   ROTEE FUNDING PROFILE (\$ IN MILLIONS)   TALLON   COMPONENT   THRU DPTR   CY   BYT   BYZ	EXTENT OF IMPROVEMENT OVER ITEM(S)	S) EQUIPMENT TO	BE REPLACED						
EVELOPMENT CONTRACT INFORMATION         ROTAE FUNDING PROFILE (\$ IN MILLIONS)           CONTRACTOR NAME         PLANT LOCATION         COMPONENT         THRU PYR         CY         BY1         BY2           TURSWICK Defense         Deland, FL         System         74.6         74.6         74.6         74.6         Page         Page         Page         Page         Page         Page         Page         Of Page         Page <t< td=""><td>Replaces no existing system; provi</td><td>/ides first gen</td><td>eration capability for st</td><td>and-off detection of chem</td><td>ical agent vapo</td><td>ſs.</td><td></td><td>•</td><td></td></t<>	Replaces no existing system; provi	/ides first gen	eration capability for st	and-off detection of chem	ical agent vapo	ſs.		•	
TUTSMICK Defense   Deland, FL System 74.6   PLANT LOCATION   System 74.6   PLANT LOCATION   PLANT LOCATION   PROPRIET   PLANT   PROPRIET   PR	DEVELOPMENT CONTRACT INFORMATION		RD.	TRE FUNDING PROFILE (\$ IN	MILLIONS)				
TOTAL RDIZE FUNDING	CONTRACTOR NAME	PLA	NT LOCATION	COMPONENT	THRU PYR	ζ	BY1	BY2	BEYOND BY'S
TOTAL RDT&E FUNDING	Brunswick Defense	Deland, FL		System	74.6				
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= Date vehicle mounted OT and IOT&E completed.  Page of  DD Form 2443, JUL 88  ITEM NO 110 PAGE NO 4 OF 5  EXHIBIT P-19		OT&E completed.							
JUL 88  ITEM NO 110 PAGE NO 4 OF 5  EXHIBIT P-15		OT&E completed.							
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REPORTS DD-COMP(AKTT09	

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 - Other Support Equipment

PRODUCTION SCHEDULE

DATE February 1995

P-1 ITEM NOMENCLATURE

Remote Sensing Chemical Agent Alarm XM21

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

### SHEET JUSTIFICATION 1 T E X BUDGET

February 1995 DATE (M98800)

APPROPRIATION / BUDGET ACTIVITY
Other Procurement, Army, Budget Activity 3,
Other Support Equipment

P-1 ITEM NOMENCLATURE Automatic Chemical Agent Alarm (ACADA), XM22

	<b>*</b>	F 195	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		160*						
COST(IN MILLIONS)		5.5						
DESCRIPTION: The Automatic Chemical Agent Alarm/Non-Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of Jatorian and Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of Jatorian and Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of Jatorian and Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of Jatorian and Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of Jatorian and Developmental Item (ACADA/NDI) is a man-portable automatic alarm system contable of the property of t	ıl Agent Alarm/Non-E	Developmental Item (	(ACADA/NDI) is a man	-nortable automati	tones exerten canal	and the second		1
nerve agents. The ACADA/NDI operates with no human interference after system start-up, defents all the academic and account advance of the contraction of the contrac	es with no human in	terference after sy	/stem start-up dete	ofts automatically	for a minimum of 27	אופייים מפופכ	ting standar	d buster and
alarms, and has a communication interface to support battlefield	erface to support b	battlefield automati	on evetome The AC	ADA/MDI mocto the	automation exetome. The AFANA And months the military and automation and the months are	yours, prov	ides audio 8	nd Visual

The ACADA/NDI meets the critical needs of the US Forces for an automatic point sampling chemical agent alarm.

\* P-1 has an incorrect quantity for this system. Based upon current program costs, FY 95 quantity should be 100.

PROGRAMS FOR CHEMICAL/BIOLOGICAL DEFENSE FOR FY96 AND BEYOND HAVE BEEN TRANSFERRED TO:

PROCUREMENT, DEFENSE-WIDE BUDGET ACTIVITY 3 CHEMICAL/BIOLOGICAL DEFENSE

DD Form 2454, JUL 88

P-1 SHOPPING LIST

S 6 PAGE NO 1 ITEM NO 112

Pages Page

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EXHIBIT P-40

WEAPONS SYSTEM COST ANALYSIS	A Appropria	Appropriation/Rudget	B Moone	0000					
EVHIDIT (D E)		iofina ion	. A & &	E DC		C. Manufacture Name	ture Name		D. Date
(c-1)   Idina	Activity Title/No.	ritle/No.	Model/Se	Model/Series/Popular Name	ame	Plant City/S	Plant City/State Location		Month/Year
	Other Prod	ther Proc: Army 3	Automatic Chem Agt Alarm	Chem Agt /	Vlarm	Unknown			Feb-95
Weapone System	Oilliei opi Equip	dinh		(ACADA) AMZZ	MZZ				
Control of Stelling	Ident.	94 PY	è	95 CY	\$	96 BY1	ð	97 BY2	Q
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. Hardware	80			12,000	1,200				
2. Engineering Support					1365				
									,
3. Quality Assurance Support					390				
4. First Article Test					1,000				
<ol><li>Refurbishment and Operational Verification of Alarms</li></ol>					360				<u> </u>
6. Procurement of TDP					006				
7. ILS Support					240	-			
					:				
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				•					
TOTAL					5,455				
ITEM NO 112	12			DAGE 2 of 5	l				

PAGE 2 of 5

Top-tampour Activity  Top-tampour Activity	C. P. I ITEM NOMENOSET ACTIVITY   C. P. I ITEM NOMENCLATURE   C. P. I ITEM NOMENCLATURE   Automatic Chemical Agent Alam (ACADA) XM22   Automatic Chemical Agent Alam (ACADA) XM22   C. P. I ITEM NOMENCLATURE   C. P. I I ITEM NOMENCLATURE   C. P. I ITEM NOMENCLATURE   C. P. I ITEM N	שלים ביי	DODGET TROCOREMENT FISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLAI	VING EXHIB	8IT (P-5A)					A. DATE	
Coordinated Contracted Contracted Award Delivery 1 Cost Method Contracted Award Delivery 1 Cost Method Cost Method Contracted Award Delivery 1 Cost Avail Now Required W Required W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost Avail Now Research W Steel Cost	C. P. I TEM NOMENCATURE										Feb-95	
Automatic Chemical Agent Alam (ACADA) XM22  Automatic Contraction  Contraction  Contraction  & Type By Date OFFIST  Out-96  Unknown  C/FP CBDCOM  Jun-95  Oct-96  100  12,000  No Yes	Automatic Chemical Agent Alam (ACADA) XM22  Finent Confraction Cost Method Contracted Award Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spee Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Unit Spees Spees Rev Date of First Quantity Spees Spees Rev Date of First Quantity Spees Spees Spees Spees Spees Spees Spees Spees Spees Spees Spees Spees Spees Spees Rev Date of First Quantity Spees Spees Spees Spees Spees Spees Rev Date of First Quantity Spees Spee	S. APPROPRIAT	ION/BUDGET ACTIVITY				C. P-1 ITEM NO	MENCLATURE				
Unknown C/FP CBDCOM Jun-95 Oct-96 100 12,000 No Yes	The month   Contractor   Cost Method   Contracted   Cost Method   Contracted   Cost	Alliel FIG. Alling	s, Orner spt Equip				Automatic Chem	ical Agent Alarm	(ACADA) XM22			
Tes Unknown C/FP CBDCOM Jun-95 Oct-96 100 12,000 No Yes	Tare Unknown C/FP CBDCOM Jun-95 Oct-96 100 12,000 No Yes narks	Cost Element Fiscal Year	Contractor and Location	Cost Method & Type	Contracted	Award	Date of First Delivery	Quantity	Unit			If Yes,
		fardware 1795	Unknown	C/FP	СВБСОМ	Jun-95			12,000	No		
	). Remarks											

PAGE 3 of 5

APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment CURRENT DEVELOPMENT AND TEST STATUS  DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) PLAN/ACTUAL OPER TEST & EVAL (OT&E) OR PERFORMANCE SPECIFICATIONS	D.E S C R I P T I O N	DATE February 1995				REPORT CONTROL SYM DD-COMP(AR)1092	SYMBOL 1092
PPROPRIATION / BUDGET ACTIVITY ther Procurement: Army 3 ther Support Equipment  URRENT DEVELOPMENT AND TEST STATUS  EV TEST & EVAL (DT&E) PLAN/A NITIAL OPER TEST & EVAL (10T&E) PLAN/A PER TEST & EVAL (0T&E) VAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		D-1 ITEM NOMENCE				W	1076
THEF SUPPORT Equipment  URRENT DEVELOPMENT AND TEST STATUS  EV TEST & EVAL (DT&E) PLAN/A  NITIAL OPER TEST & EVAL (10T&E) PLAN/A  VAIL DATE OF TECH DATA PKG (TDP)  OR PERFORMANCE SPECIFICATIONS		F-1 11EM NOMENCLATURE	URE				
URRENT DEVELOPMENT AND TEST STATUS  EV TEST & EVAL (DT&E) PLAN/A  NITIAL OPER TEST & EVAL (10T&E) PLAN/A  VAIL DATE OF TECH DATA PKG (TDP)  OR PERFORMANCE SPECIFICATIONS		Automatic Chemical Agent Alarm (ACADA), XM22	Agent Alarm (	ACADA), XM22			, 000000n
EV TEST & EVAL (DT&E)  MITIAL OPER TEST & EVAL (10T&E) PLAN/A PER TEST & EVAL (0T&E)  MAIL DATE OF TECH DATA PKG (TDP)  OR PERFORMANCE SPECIFICATIONS							(1140000)
EV TEST & EVAL (DT&E)  NITIAL OPER TEST & EVAL (10T&E) PLAN/A PER TEST & EVAL (OT&E) VAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS		SC	SCHEDULE DATE				
EV TEST & EVAL (DT&E)  NITIAL OPER TEST & EVAL (10T&E) PLAN/A PER TEST & EVAL (0T&E)  VAIL DATE OF TECH DATA PKG (TDP)  OR PERFORMANCE SPECIFICATIONS	CURRENT	LAST REPORTED			REASON FOR DELAY	ELAY	
	CTUAL Jan 95 CTUAL N/A Jan 95 Feb 95	Jan 95 N/A Jun 95 Feb 95	The ACADA/ND test require The performa procurement.	A/NDI program uirements idei ormance spec nent.	The ACADA/NDI program was restructured. The test requirements identified as critical by The performance spec must be available for procurement.	The ACADA/NDI program was restructured. The DT&E and OT&E will test requirements identified as critical by the joint services. The performance spec must be available for the initial procurement.	and OT&E wil oint services itial
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	TC LRP Mar 95 TC/	STD Sep 96					
EQUIPMENT ITEM(S) TO BE REPLACED: Complement M8A1 Automatic Chemical Agent Alarm	ment M8A1 Automatic Chemical A	gent Alarm					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: First time capanerve agent sensitivity and improved interference rejection to detect agent	MENT TO BE REPLACED: First time inference rejection to detect	time capability to automatically detect blister agents on the battlefield.	detect blist	er agents on t	the battlefiel	- 1	Significantly increased
DEVELOPMENT CONTRACT INFORMATION		RDT&E FUNDING PROFILE (\$ IN P	MILLIONS				
CONTRACTOR NAME	PLANT LOCATION		THRII DYR 04	, VOE	2		
Environmental Technologies Group, INC. (ETGI)	Towson, MD	Complete System				812	BETOND BY'S
UGA Battelle In-house & Material	Edgewood, MD		0.1 8.	1.7			
TOTAL DATOF FURNISHO			33.0				
CONT NO RE TONDING			107.5	1.7			
REMARKS: Total RDI&E funding includes in-house support.	port.						
DD Form 2443, JUL 88	P-1 SHOPP ITEM NO 112 P	OPPING LIST PAGE NO 4 OF 5	UNCLASSIFIED	IFIED	ă.	Page of EXHIBIT P-19	Pages

REPORTS C. SYMBOL.		
PRODUCTION SCHEDULE	S C M E D U L E DATE February 1995	ry 1995
APPROPRIATION / BUDGET ACTIVITY	P-1 ITER NOMENCLATURE	
Other Procurement: Army 3		
Other Support Equipment	Automatic Chemical Agent Alarm, XM22	

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	PROGRAM QUANTITY	<u> </u>	. 6		TOTAL MONTHLY PRODUCTION	ł	MANUFACTURERS NAME	₹					78 III 57% W20 00	ğ
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

# BUDGET ITEM JUSTIFICATION SHEET

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P-1 ITEM NOMENCLATURE Decontaminate App Pwr Dr Lt Wt M17

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 -Other Support Equipment

								(M67400)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY 01
QUANTITY	515							
COST(IN MILLIONS)	7.2							

DESCRIPTION: The M17A3 is a lightweight, compact, engine driven pump and water heating unit designed to decontaminate equipment. The unit is designed to draw water from any source and deliver it at controlled temperatures up to 120 degrees Centigrade and pressures up to 100 pounds per square inch. The basic unit is supplemented by an accessory kit containing hoses, cleaning jets, and personnel shower hardware. A rubberized fabric, self-supporting, collapsible tank with a capacity of 3,000 gallons is included with the system.

COOPERATIVE AGREEMENTS: A license between the U.S. Government; Engineered Air Systems, Inc. (EASI), St. Louis, MO; and Karl H. Hoie and Co. (HOIE) of Norway, signed 7 Jul 87, provided the following: a) FY 87-88 sole source procurement to EASI for a total of 1,000 systems; b) Government acquisition of data rights allowed competitive procurement, which started in FY 89; c) Royalties to HOIE on the first 3,400 systems produced (started in FY 87) and to EASI for the first 1,000 systems awarded (after FY 88) to a producer other than EASI.

Pages

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**UNCLASSIFIED** 

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PAGE NO

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ITEM NO

DD Form 2454, JUL 88

P-1 SHOPPING LIST

EXHIBIT P-40

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

### SHEET JUSTIFICATION - E BUDGET

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army 3 -Other Support Equipment

Gen Smk Mech: Mtrzd Dual Purp, XM56

P-1 ITEM NOMENCLATURE

				•				(M99103)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	¥Z1	<b>+</b> 09	-	70	17			
COST(IN MILLIONS)	6.4	12.4		13.0	13.3			

#### DESCRIPTION:

The XM56, mounted on the High Mobility Multipurpose Wheeled Vehicle (HMMMV), will disseminate smoke on the move and from stationary positions to defeat enemy sensors and smart munitions. The XM56 is a large area smoke generator system providing visual, infrared and through a pre planned product improvement (P31) millimeter wavelength obscuration. The system uses a turbine engine as a power source to disseminate obscurants. The visual screening module is capable of vaporizing fog oil for up to 60 minutes. The infrared and millimeter wave screening (P31) modules will be capable of disseminating a particulate material to provide 30 minutes of screening.

XM56 is a force multiplier and increases survivability of US forces by defeating or degrading threat surveillance and weapon system sight to include tank thermal sights guided munitions, directed energy weapons, and other systems operating in the visual through the far-infrared regions of the electromagnetic spectrum. The XM56 sights guided munitions, directed energy weapons, and other systems possible or stationary operations in rear areas. The XM56 system provides the basic generator components JUSTIFICATION: World wide availability and proliferation of weapons systems operating in the infrared and millimeter wave regions requires new countermeasurers. for the XM58 system. Force Package I requires 267 M56 Smoke Generators.

\* P1 has an incorrect quantity for this system. Based upon current program costs, FY94 quantity should be 30 each and the FY 95 quantity should be 47 each.

DD Form 2454, JUL 88

P-1 SHOPPING LIST

'n 6 114 PAGE NO 1

**EXHIBIT P-40** ð

WEAPONS SYSTEM COST ANALYSIS	A. Appropriation/Budget	ion/Budget	B Weapon	uod		Manufacture Man	1	TDC	
EXHIBIT (P-5)	Activity Title Mic	itic/Nic				C. Mariulac		20	D. Date
	Activity	ille/No.	Model/Seri	Model/Series/Popular Name	Пе	Plant City/State Location	ate Location	TBS	Month/Year
	OPA-3		Gen Smk N	Gen Smk Mech: Mtrzd Dual	l Dual	Unknown			Feb-95
	Other Spt Equip	Equip	Purp, M56						
Weapons System	Ident.	PY94	Oty 30	СҮ95	Oly 47	BY96	O AŞO	BY97	Obv 70
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
M56 Smoke Generators	<b></b>	165,000	4,900	165,000	7,755			173,071	12,115
Engineering Support					2,346				899
PQT	7/12				066				
DMWR					700				
					<b>†</b>				*****
FAT					985				
TOTAL			-						
			4900		12,410				13,014
I EM NO 114	4			PAGE 2 of 5	ıc				

PAGE 2 of 5

BUDGET PR	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLAF	VINING EXHIB	IT (P-5A)					A. DATE	
. Algodov a	TOWN THOUSAND								Feb-95	
B. APPROPRIA	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE	MENCLATURE				
OPA-3: Other S	OPA-3: Other Support Equipment				Gen Smk Mech:	Gen Smk Mech: Mtrzd Dual Pur XM56	MS6			
Cost Element	Contractor	Cost Method	Contracted	Award	Date of First	Quantity	Cnit	Specs	Spec Rev	If Yes.
Fiscal Year	and Location	& Type	Ву	Date	Delivery	•	Cost	Avail Now	Required	When Avail
FY94	TBS	C/FP M5(1)	CBDCOM	Mar-95	96-100	30	165,000	YES	1	
FY95	TBS	C/FP M5(1)	CBDCOM	Mar-95	Apr-97	47	165,000	YES	Q V	
FY97	TBS	C/FP M5(3)	CBDCOM	Dec-96	Jan-98	70	173,071	YES	Q N	
D. Remarks	D. Remarks	و مروس			i					

This contract produces both the M56 System and components for the XM58. The XM58 components contract will be awarded in the second year.

ITEM NO 114

PAGE 3 of 5

REPOI DD-CC	REPORTS CONTROL SYMBOL DD-COMP(AR)1092	)1092												P R 0 D	_	C 1 1	<b>2</b>	SCH	CHEDULE	U L E													DATE:		February 1995	4 199	ħ.		
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FACILITY	<b>&gt;</b> -	≨	MANUFACTURERS NAME	TURERS	MANE				PRODU	PRODUCTION RATES	ATES			<u> </u>	MONTHS TO				ROCUR	ENENT	PROCUREMENT LEAD TIME	¥			] [	- E	REMARKS: This contract provides common components for the M56 and A858 and associated spares. The 1-8-5 rate will be ochieved	= 2	is cor	ntrac	t pro	v ige	E 4	Mar   1	common components for the M56	lents	- ₽ <u>-</u>	the R	22.
⊋			ĭ *	LOCATION	*		-	MINIM	-	1-8-5	_	MAXIMUM	<b>₹</b>	AFTER D	CH MAX	_ ≽		Ş.	N LEA	ADMIN LEAD TIME	··· 1					t et	between the M56 and XM58.	the t	456 au	X D	<b>58</b> .	Initi		anufa	Initial manufacturing time includes	ng ti	]  -  -	) E	es es
-	훌	Unknown					-	m		2	+-	8			~	_		PRIOR 1 OCT		AFTER 1 OCT	MANU	MANUFACTURING TIME		TOTAL After 1 oct	1 OCT	FY9	FY94 funding will be awarded on FY95 contract and deliveries	ding		ة ع:	warder	<u>م</u> ع	FY95	cont	ract	and d	el ive	ries	
	$\dashv$															=	INITIAL	9		2		20		23		5	combined w/FY95 deliveries.	H/FI	795 4	el ive	ries.								
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PRODUCTION SCHEDULE

REPORTS CONTROL DD-COMP(AR)1092

P-1 ITEM NOMENCLATURE

DATE: February 199

REMARKS: This contract provides common components for the W56 and XM58 and associated spares. The 1-8-5 rate will be achieved between the M56 & XM58. Initial manufacturing time includes time for FAT & P0T. ۸ - <u>\_ \_</u> \_ <u>\_ \_</u> Pages (H99103) EXH181T P-21 JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP SEP JUL AUG S ð Page 5 JAN FEB MAR APR MAY CALENDAR YEAR 8 FISCAL YEAR JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC UNCLASSIFIED AFTER 1 OCT CALENDAR YEAR 99 TOTAL Gen Smk Mech: Mtrzd Dual Purp, M56 2 ß MANUFACTURING TINE A FISCAL YEAR 99 PROCUREMENT LEAD TIME ಜ \* NOV DEC 5 S 5 S ADMIN LEAD TIME AFTER 1 OCT 9 S ~ 5 9 AUG SEP • 78.19 1.00T 9 • • 0 틧 • REORDER 3 • 5 JAN FEB HAR APR HAY JAN FEB HAR APR MAY 9 6 • 8 MONTHS TO REACH MAX AFTER D DAY • PAGE NO 5 9 CALENDAR YEAR P-1 SHOPPING LIST 9 • 9 • 8 9 • MAXIMUM 11EH NO 114 9 FISCAL YEAR NOV DEC 路 DEC OCT NOV 4 PRODUCTION RATES 9 5 1-8-5 BAL DUE AS OF 1 001 ₽ 2 器 2 ACCEPT PRIOR 10 1 OCT 2 2 83 HINIM ~ **₩** 2 ₽ 6 PROGRAM QUANTITY <u>~</u> % MANUFACTURERS NAME & LOCATION DD Form 2445, JUL 87 TOTAL MONTHLY PRODUCTION 7,7 APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment ፫ የሪ 2 など 도쫎 Unknown ഗ w **~** > < • ~ **> =** FACILITY FACILITY NO 읖

SHEET JUSTIFICATION ITEM BUDGET

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P-1 ITEM NOMENCLATURE

DATE: February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

QUANTITY

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

Gen Smk Mech: Mechanized Smk Obs Sys XM58

(M99107)

FY00 FY99 7.6 FY98 27 FY97 12.1 34 12.7 FY96 34 FY95 FY94 COST(IN MILLIONS)

wavelength obscuration. The system is comprised of the M113A3 armored personnel carrier, smoke generator components and the AV/VAS3 Drivers Thermal Viewer (DTV). The visual screening module is capable of vaporizing fog oil for up to 90 minutes without resupply. The infrared screening module is capable of disseminating a particulate material to provide 30 minutes of screening. The thermal view permits operating in the visual cloud. reconnaissance, intelligence, surveillance, and target acquisition threats. The XM58 is a mechanized large area screening system providing visual and infrared The XM58 provides heavy unit maneuver commanders the capability of generating large area screens to shield forces from visual and infrared DESCRIPTION:

The XM58 platoon of six vehicles is task organized to Divisional or Corps maneuver commanders, responds immediately to shifts in meteorological conditions, and covers The XM58 Mechanized JUSTIFICATION: Operation Desert Storm identified an urgent need to upgrade the mobility of the currently fielded M1059 Smoke Generator Carrier. The XM58 Mechaniz Smoke Obscurant System FY96-FY97 procurement will equip mechanized combat smoke generator units with the capability of keeping pace with the M1 Abrams Tank and M3 Bradley Fighting Vehicle units. The XM58 also significantly increases survivability of US forces by providing the first ever capability of generating large area visual and infrared smoke clouds. Used in mobile or stationary emplacement, the XM58 will degrade threat surveillance and weapon systems sights to include: tank thermal sights, guided munitions, directed energy weapons, and other systems operating in the visual through far infrared regions of the electromagnetic spectrum. a 1Km x 5Km area in its stationary role.

DD Form 2454, JUL 88

P-1 SHOPPING LIST ITEM NO 115

ø 5 PAGE NO 1

UNCLASSIFIED

Pages EXHIBIT P-40 φ Page

WEAPONS SYSTEM COST ANALYSIS	A. Appropriation/Budget	ion/Budget	B. Weapon	Logi	(M99107)	(M99107)  C. Manufacture Name		TBS	D. Date
EXHIBIT (P-5)	Activity Title/No.	tle/No.	Model/Seri	Model/Series/Popular Name	Te	Plant City/State Location	Ijon	TBS	Month/Year
	OPA-3		Gen Smk,	Gen Smk, Mech: Mechanized	hanized				Feb-95
	Other Spt Equip	Equip	Smk Obs Sys XM58	sys XM58					
Weapons System	ldent.	λd	Qty	ζ	Qty	BY1 96	Oty 34	BY2 97	Oty 34
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Smoke Generator Components	8					136,147	4,629	139,147	4,731
Drivers Thermal Viewer (AN-VAS3)						49,824	1,694	50,912	1,731
XM58 Integration							4,140		4,231
Engineering Support							2,235		1,059
PQT									298
TOTAL.							12,698		12,050
STI ON WILL	13			Page No 2 of 6	of 6				

Page No 2 of 6

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BUDGET PF	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLAN	VINING EXHIB	IT (P-5A)					A. DATE	
									Feb-95	
B. APPROPRIA	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NO	C. P-1 ITEM NOMENCLATURE (M99107)	(M99107)			
OPA-3: Other St	OPA-3: Other Suport Equipment				Gen Smk Mech:N	Gen Smk Mech: Mechanized Smk Obs Sys XM58	Obs Sys XM58			<del></del>
Cost Element	Contractor	Cost Method	Contracted	Award	Date of First	Quantity	Chit	Specs	Spec Rev	If Yes,
Fiscal Year	and Location	& Type	By	Date	Delivery		Cost	Avail Now	Required	When Avail
DTV's										
FY96	HUGHES	SS/FPM4(2)	CECOM	Dec-95	Jan-97		49,824		Š	
FY97	HUGHES	SS/FPM4(3)	CECOM	Dec-96	Jan-98	34	50,912	Yes		
Smk Gen Cmpts	ı npts									
FY96		C/M5(2)		Dec-95	Jan-97		136,147	<sup>o</sup> N	Š	Aug-95
FY97	TBS	C/M5(3)	CBDCOM	Dec-96	Jan-98	34	139,147			)
XM58 Integration	ا ation									<u></u>
FY96	TBS	C/M4(1)	CBDCOM	Dec-95	Feb-97	34	121,765	No	S.	Aug-95
FY97	TBS	C/M4(2)	CBDCOM	Dec-96	Feb-98		124,441			)
			<del></del>		,				•	
	•									
						·				
D. Remarks										
The Smoke (	The Smoke Generator Components contract will be awarded as the 2nd year of the XM56 (M99103)	s contract will t	be awarded as	the 2nd year	r of the XM56	(M99103)				
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contract.

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CODE "B" I	ITEM DESC	RIPTION	DATE: Febru	February 1995			REPORT CONTROL SYMBOL DD-COMP(AR)1092	SYMBOL 1092
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NOMENCLATURE	ENCLATURE				
Other Support Equipment			Gen Smk Mech:	: Mechanized Smk Obs Sys XM58	bs Sys XM58			(M99107)
CURRENT DEVELOPMENT AND TEST STATUS	TUS						1	
				SCHEDULE DATE				
		CURRENT	LAST REPORTED	ED .		REASON FOR DELAY	LAY	
DEV TEST & EVAL (DT&E)		Jan 95						
OPER TEST & EVAL (100 ME)  AVAIL DATE OF TECH DATA PKG (TDP)  OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL	Apr 95 Aug 95						
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:	ERVICE USE: Aug 95	95 (TC IPR)						
EQUIPMENT ITEM(S) TO BE REPLACED:	1	Generator, Smoke, Mechanical: Pulse	Pulse Jet M3A4					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:	S) EQUIPMENT TO BE	E REPLACED: Safety an	and operationsal improvements plus mobility.	ements plus mobilit	×			
Increases survivability by improving mobility and maneuverability comparable to supported forces and by adding infrared screening capability.	/ing mobility and	maneuverability compa	rable to supported fo	rces and by adding	infrared screen	ing capability		
DEVELOPMENT CONTRACT INFORMATION		~	RDT&E FUNDING PROFILE (\$ IN MILLIONS)	(\$ IN MILLIONS)				
CONTRACTOR NAME	PLANT	PLANT LOCATION	COMPONENT	THRU PYR	CY95	BY1	BY2	BEYOND BY'S
None In-House and OGA	ERDEC ar	ERDEC and Test Sites		9.7	8.			
TOTAL RDT&E FUNDING				9.7	1.8			
REMARKS								
		P-1 SHOPPING LIST	ING LIST			Pa	Page of	Pages
DD Form 2443, JUL 88		ITEM NO 115 P/	PAGE NO 4 OF 6	UNCLAS	UNCLASSIFIED		XHIBIT P-19	

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REPORTS CONTROL DD-COMP(AR)1092	

PRODUCTION SCHEDULE UNCLASSIFIED

DATE: February 1995 P-1 ITEM NOMENCLATURE

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APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3	1AT10	N / B.	UDGET	T ACT I	VITY																	11ER	NO.	P-1 ITEM NOMENCLATURE	TURE																	l .			
Other Support Equipment	uppor	it Equ	ipmen	ٰ ہے`																	Cen	S F	ech:	Gen Smk Mech: Mechanized Smk Obs Sys XMSB	chani	zed S	美	os s)	ž.	28													(H)	(M99107)	
FACILITY		v		P.R	PROGRAM QUANTITY	QUANT	ΙΙ		A C	į.		FISC	FISCAL YEAR	1	96					İ		=	SCAL	FISCAL YEAR 97	262								FIS	FISCAL YEAR	YEAR	88									T
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FACILITY		ā.	PRODUCTION RATES	V <sub>3</sub>	MONTHS TO		PROC	PROCUREMENT LEAD TIME	EAD TINE		REMARKS	
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ITEM NO 115 PAGE NO 5 OF 6

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**EXHIBIT P-21** 

REPORTS CONTROL SYMBOL DD-COMP(AR)1092	S CONT	TROL \$	SYMBOL	į									م	P R 0 D U	U C T	N 0 I	SC	H E O U L												DATE		February 1005	7001		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3	NATIC Procur	N / E	UDGET : Arm	ACT IVI	λ.													p-1	P-1 ITEM NOMENCLATURE	MENCLA	TURE		ļ								1				
Other	Suppor	rt Equ	ıi pment															<u>.</u>	Sink Mec	# #	Gen Smk Mech: Mechanized Smk Obs Sys XM58	Se Silk	Ops S)	S XMS	<b>60</b>										. (M00107)
FACILITY		S		PROG	PROGRAM QUANTITY	ANTIT		-			FISCA	FISCAL YEAR	8						FISC	FISCAL YEAR	8			-			E	FISCAL YEAR		9					
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FACILITY		MAN	MANUFACTURERS NAME	ZERS N	AME			ā	PRODUCTION RATES	ON RAT	ES		<u>-</u>	NON	2		1	PROCUREMENT LEAD TIME	NENT L	E	<b> </b>	1	-	2	REMARKS:	4	]	-		1			-		-
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

# BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

DATE: February 1995

(M99104)

FY 01

FY 00

APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

FY 94

3.6

5.2

COST(IN MILLIONS)

QUANTITY

screens. System consists of two generators, one control panel, one air compressor assembly, one fog oil pump assembly and associated hoses and electrical cables. The M15741, type classified standard A on 8 Oct 93, incorporated essential user requested safety and operational improvements, such as smaller control panel, improved accommodate either the 80 or 120 gallon fog oil tank on either the M1097 or M1037 HMMWV, depending on operational equipment load. The M157A2 will permit the two generators to utilize JP8, JP5, JP4, DF2, DF1 in addition to M0GAS to produce heat in accordance with D00 directives. The M157A2 will also be incorporated into a fire detection system, fuel water separator/filter and new engine head which permits operation at either sea level or high altitude. The M284A1 mounting kit can DESCRIPTION: The M157A2 Smoke Generator System (SGS) utilizes two remote operated pulse jet generators to vaporize fog oil to produce large area visual smoke M113 Armored Personnel Carrier as the M1059 Smoke Generator Carrier (SGC).

JUSTIFICATION: The M157A2 FY96-FY97 procurement will equip combat smoke generator units with the first ever capability of making mobile smoke at any altitude using multiple fuels to produce heat. The M157A2 significantly increases survivability of US forces by defeating or degrading threat surveillance systems. Highly mobile, the M157A2 can maneuver in response to changing meteorological conditions to provide one hour of continuous large area, visual smoke, supporting Corps and Division combat maneuvers. In its stationary role, the M157A2 equipped smoke platoon is capable of visually screening a 1x5 KM area in support of rear area operations

DD Form 2454, JUL 88

P-1 SHOPPING LIST

PAGE NO 1 OF 4

ITEM NO 116

EXHIBIT P-40

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WEAPONS SYSTEM COST ANALYSIS	A. Appropriation/Budget	ion/Budget	B Weapon	noat	(M99104)	C. Manufachira Mama	hire Mame		450
EXHIBIT (P-5)	Activity Title/No	itle/No	Model/Ser	Model/Series/Donals Alam	(; _ ; _ ; _ ; _ ;				C. Cala
	000		indensity in the second	ies/ropular Na	e E	Plant City/State Location	ate Location		Month/Year
	Other Spt Equip	Equip	Jet M157A2	Gen Set, Smoke Mecn: Fulse Jet M157A2	n: Pulse				Feb-95
Weapons System	ldent.	₹	ά	СУ95	δţ	BY1 96	Oth 170	BY2	Otv 118
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
M157A2 Generator Set (includes M284E1 Mounting Kits)	∢					28,118	4780	28,212	3329
Engineering Support							285		285
FAT/PQT							149		
TOTAL						-	5214		3,614
ITEM NO 116	<del>1</del> 6		_	Page 2 of 4					

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BUDGET PF	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	RY AND PLAP	JNING EXHIB	IT (P-5A)					A. DATE	
									Feb-95	
B. APPROPRIA	B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE		(M99104)			
OPA-3: Other S	OPA-3: Other Support Equipment				Gen Set, Smoke,	Gen Set, Smoke, Mech: Pulse Jet, M157A2	, M157A2			
Cost Element	Contractor	Cost Method	Contracted	Award	Date of First	Quantity	Unit	Specs	Spec Rev	If Yes,
Fiscal Year	and Location	& Type	By	Date	Delivery		Cost	Avail Now	Required	When Avail
M157 Gener	 ator Set									
FY87 Ro	Minowitz Rosebille, MI	C/FP	AMCCOM	Sep-87	Nov-88	320	16,422			345 11
  M157A2 Generator Set	 nerator Set		•							
FY96	TBS	C/FPM2(1)	CBDCOM	Jan-96	Sep-96	170	28,118	Yes		
FY97	188	C/FPM2(2)	CBDCOM	Jan-97						
D. Remarks										

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ROPR er Pr	ATION	N / BL ment:	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3	3	<b>.</b>												P-1	TEM NO	P-1 ITEM NOMENCLATURE	TURE														
er St	poor	t Equi	pment														Gen S	Set, Sin	Gen Set, Smoke, Mech:		Pulse	Pulse Jet M157A2	. 2VZS											(H99104)
FACILITY		~		PROGR	PROGRAM QUANTITY	WTITY		ACCED		FISC	FISCAL YEAR	i i	%					FISC	FISCAL YEAR	R 97						=	FISCAL YEAR	1	8					
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			93P 94		%	9	8	2 <u>2</u>	1 OCT	5	NOV DEC	C JAN	JAN FEB MAR	APR MAY	AY JUN	JUL.	AUG SEP	100	NOV DEC		EB MAR	JAN FEB MAR APR MAY	AY JUN	¥	AUG SEP	P OCT	MOV	DEC	JAN FEB MAR	MAR	APR MAY	3	JUL AUG	SE SE
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FACILITY		MAN	MANIJEACTIRERS NAME	ERS 44	L L			684	PERMICTION PATES	MIES			MONTRE			] "	ROCURE	MENT	PROCUREMENT LEAD TIME	₩		}	<del>=</del>	REMARKS	۱	4	1	-			-		-	
2			& LOCATION	110N	<u> </u>		31313	- 1	1-8-5	- 1	MAYTM		REACH P	Z X Z		<b>§</b>	ADMIN LEAD TIME	118					Γ-											
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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Budget Activity 3 Other Support Equipment

### JUSTIFICATION SHEET TEM BUDGET

DATE February 1995

Radiation Monitoring System P-1 ITEM NOMENCLATURE

								(MB3001)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST(IN MILLIONS)	8.3							

DESCRIPTION: The Radiation Monitoring Systems Line funds items used in the detection, measurement of radiation and devices for the reading of dosimeters. Items programmed for acquisition include the following:

- (1) Radiac Set, AN/VDR-2
- (2) Computer/Indicator, CP-696-PD

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P-1 SHOPPING LIST

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REPORTS CO. DL SYMBOL								
DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	DGET ITEM JUSTIFICATION SHEET	1EET		DATE February 1005	ary 1005
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			2007
OTHER PROCUREMENT ARMY					RIBBON BRIDGE	RIDGE		
ACTIVITY 3 OTHER SUPPORT EQUIPMENT								
								( MA8890)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)			3.8	4.5	4.6	4.7	9.6	9.0

DESCRIPTION: The Ribbon Bridge consists of: Interior Bays (M266), Ramp Bays (M267), Bridge Boat (M236), Cradle (M263), Cargo Pallet (M256), and Transporters. (M268). These components are required to transport, launch, erect, and retrieve a floating bridge up to 200 meters long per bridge company. Ribbon Bridges have a capacity of 80 tons, and are used to transport weapon systems, troops and supplies over water when permanent bridges are not available. JUSTIFICATION: The Ribbon Bridge provides the capability for a continuous floating roadway to be rapidly constructed for transporting assault and tactical vehicles across vehicle that will replace the current overaged fleet with a vehicle that will: improve ground mobility (larger payload), and enhance readiness by decreasing construction and streams and rivers that cannot be forded. Procurement of the Improved Ribbon Bridge Transporter (IRBT) is planned for FY 96 and FY 97. Improvements will provide a retrieval time. The IRBT is designed to be compatible with the Palletized Loading System (PLS), and will operate with the current Ribbon Bridge, the Improved Ribbon Bridge, the Medium Girder Bridge, and the Heavy Dry Support Bridge.

Page of Pages	EXHIBIT P-40
	UNCLASSIFIED
P-1 SHOPPING LIST	ITEM NO 119 PAGE NO 1 OF 7
	DD Form 2454, Jul 88

SEPORTS CONTROL SYMBOLI				UNCLASSIFIED					
DD-COMP(AR) 1092	5	WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE Eshaise, 1005	1006
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE RIBBON E	ENCLATURE RIBBON BRIDGE	NDGE		Caal (in
		MANUFA PLANT CITY See P5-A	MANUFACTURER NAME PLANT CITY/STATE LOCATION 6 P5-A	NO	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	PULAR NAME		
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity
	m						3,828	26	4,472
						166,435	3,828	97,217	4,472
		Ī		_		UNCLASSIFIED	SIFIED	Page	of Pages
		ITEM NO	119	PAGE NO 2 OF	7			EXH	.P-5

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REPORTS CONTROL SYMBOL								
DD-COMP(AR) 1092	BUDGET	ITEM JU	<b>3UDGETITEM JUSTIFICATION SHEET</b>	TIONSHE	<u> </u>		DATE February 1005	rv 1905
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	TURE	RIBBON BRIDGE	DGE COUR	122
OTHER PROCUREMENT ARMY				(IMPROVE	D RIBBON B	(IMPROVED RIBBON BRIDGE TRANSPORTER MOGRAM)	SPORTER A	126800)
ACTIVITY 3 OTHER SUPPORT EQUIPMENT							· · · · · · · · · · · · · · · · · · ·	(00003)
								( MA8890 )
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			23	46	46	46	46	4
COST (IN MILLIONS)			3.8	4.5	4.6	47	4.8	40
							?!	

DESCRIPTION: Transporter Bridge Floating, HEMTT Chassis, consists of Heavy Mobile Tactical Truck (HEMTT) modified to transport, launch and retrieve the Ribbon Bridge components. The Improved Ribbon Bridge Transporter is designed to be compatible with the current Ribbon Bridge, as well as the Improved Ribbon Bridge components. JUSTIFICATION: The Improved Ribbon Bridge Transporter (IRBT) will replace the current, overaged 5 ton (812 series) transporters, with 10 ton capacity transporters. The IRBT will decrease transportation and construction/retrieval time, thus increasing mobility and readiness of the Ribbon Bridge companies.

Page of Pages	EXHIBIT D.40
	UNCLASSIFIED
P-1 SHOPPING LIST	119 PAGE NO 3 OF 7
	ITEM NO 1
	DD Form 2454, Jul 88

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	\$	WEAPON SY	STEM COST	SYSTEM COST ANALYSIS EXHIBIT	XHIBIT			1	1
Other Support Equipment					P-1 ITEM NOMENCLATURE RIBBON E	ENCLATURE RIBBON BRIDGE	NDGE	DATE February 1995	lary 1995
		MANUF, PLANT CIT	MANUFACTURER NAME ANT CITY/STATE LOCATION	NOI	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	OULAR NAME		
		SEE P5-A			IMPROVED	RIBBON BRI	IMPROVED RIBBON BRIDGE TRANSPORTER (M26800)	PORTER (M	(26800)
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
1. Hardware	8	ONII COS	IOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
T						86,217	23 1,983	88,804	46 4,085
z. Acceptance resting							5		
3. Data									
4. Production Engineering							1,342		
5 Finineering Chance							212		187
c. Lignicellig Change Orders									
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TOTAL						166,435	3,828	97,217	4,472
		P-1	P-1 SHOPPING LIST	,				Page of	Pages
		ITEM NO	119	AGE NO 4 OF	7	UNCLASSIFIED	iFteD	FXHI	8,0

REPORTS CONT	Or.
DD-COMP(AR) 1002	

APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

EMENT HISTORY AND PLANNING EXHIBIT

SIFIED

P-1 ITEM NOMENCLATURE

DATE February 1995

RIBBON BRIDGE	
(IMPROVED RIBBON BRIDGE TRANSPORTER, M26800)	

(MA8890)	IF YES,	WHEN	AVAILABLE	Dec 95	Dec 95	
	SPEC	REV	REQ'D	YES	YES	
	SPECS	AVAILABLE	MON	Q	0	
		LINO	COST	86,217	88,804	
			QUANTITY	23	46	
	DATEOF	FIRST	DELIVERY	Jan 97	Dec 97	
		AWARD	DATE	Dec 95	Mar 97	
		CONTRACTED	ВУ	ATCOM	ATCOM	
	CONTRACT	METHOD	& TYPE	SS/FFP (1)	C/FP/REQ 3	
		CONTRACTOR	AND LOCATION	VSE, ALEXANDRIA VA. SS/FFP (1)	TBS	
		COST ELEMENT/	FISCAL YEAR	1996	1997	

REMARKS: 1996 Award is a fixed price production option on a R&D contract awarded in 1993. 1997 is a new contract.

Pages **EXHIBIT P-5A** ŏ Page UNCLASSIFIED PAGE NO 5 OF 7 P1 SHOPPING LIST ITEM NO

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APP	APPROPRIATION /BUDGET ACTIVITY	DGET ACTIVI	ITY					ביים	O LE								믝	DATE February 1995	ebruar	1995				
₹	Other Procurement: Army 3	t: Army 3								P-4	P-1 ITEM NOMENCLATURE	NCLATUR	ш	RIBBO	RIBBON BRIDGE	9								-
€ _	Other Support Equipment	ipment									IMPRO.	ÆD RIB	IMPROVED RIBBON BRIDGE TRANSPORTER	DGE TR	ANSPO	RTER								
															L							MAB	8	(MA8890)
	S IMER	ACCEP	BAL FISCAL YEAR	88				<u></u> Ĕ	FISCAL YEAR		97				FISCAL YEAR	YEAR	σ	8					٩	<u>., «</u>
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					ITEM NO		119	PAGE NO 6 OF 7	6 OF 7,					5	ASSIFIE F	2			Ì		(			
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0 E	UNCLASSIFIEDB" ITEM DESCRIPT	RIPTION	DATE February 1995		REPOF	REPORT CONTROL BOL	_
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army - OPA 3			Ribbon Bridge				
Other Support Equipment			•			,	
CURRENT DEVELOPMENT AND TEST STATUS	TUS					(M)	(MA8890)
				SCHEDULE DATE			
		CURRENT	LAST REPORTED		REASON FOR DELAY	DELAY	
Production Quality Test		1-Sep-94	1-Sep-94				
Type Classification IPR		15-Dec-95	15-Dec-95				
							-
ESTIMATED DATE OF APPROVAL FOR SERVICE USE:	VICE USE:	15-Dec-95					
EQUIPMENT ITEM(S) TO BE REPLACED:							
Replace Ribbon Bridge Transporter							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED:	EQUIPMENT TO BE REPLACE	:D:					
Improved mobility, increased payload from 5 ton to 10 tons, interoperability with Palletized Loading System (PLS).	d from 5 ton to 10 tons, in	iteroperability with Palleti	zed Loading System (Pl	· (S)			
DEVELOPMENT CONTRACT INFORMATION		RDT&E	RDT&E FUNDING PROFILE (\$ IN MILLIONS)	(SNOIT)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	F7 85	FY 96	FY 97 RF	REYOND BYS
VSE CORP.	Alexandria, VA.	Improved Ribbon Bridge Transporter (M26800)	1.64		0.30	0	0
TOTAL RDT&E FUNDING			1.64	0	030	C	
DD Form 2443. JUL 88		P-1 SHOPPING LIST		UNC! ACCIEED	Gien	Page of Pa	Pages
	ITEM NO 119	119	PAGE NO 7 OF 7	2000			

						DATE		
	BUDGET	ITEM JUST	<b>IFICATION</b>	BUDGET ITEM JUSTIFICATION RECORD			February 1995	
APPROPRIATION BUDGET ACTIVITY Other Procurement, Army 3 Other Support Equipment	က			P-1 ITEM NOMENCLATURE Dispenser, Mine M139	ATURE 6 M139			(G39100)
	FY 94	FY 95	FY 96	FY 97	FV 98	EV 00	באטט	200
QUANTITY (EA)	166	179	0	35		Se -	8	1011
COST (in Millions)	15.9	16.2	1.0	4.3				

### DESCRIPTION:

The M139 Mine Dispenser for the VOLCANO system, mounted on a variety of ground vehicles and the UH-60 helicopter, is used to emplace the GATOR BLU-91/B Anti-Tank and the BLU-92/B Anti-Personnel mines. The system consists of four launcher racks and a dispenser control unit which are common to all vehicles/aircraft and mounting hardware which is adapted to each model. The system is critical for the United States Army to be able to conduct Full-Dimensional Operations.

This system is designed for quick connect/disconnect to aid loading/unloading in the field. It will permit quick emplacement of a minefield (1000 meters by 100 meters) that will delay, disrupt and canalize enemy forces and restrict their use of critical routes or terrain.

### JUSTIFICATION:

The VOLCANO system is the centerplece of the Army landmine system. These dispensers will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of a greater number of personnel to hostile fire. The FY 1996 funds will provide for continued program support.

The FY 1997 procurement is required for the continuation of fielding to designated units.



WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appropriatik	A. Appropriation/Budget Activity/No.		B. WEAPON MODEL/NAME		C. MANUFACTURER NAME	AME	D. DATE
		Other Supp	Other Support Equipment		Dispenser, Mine M139		PLANT CITY/STATE LOCATION	CATION	Feb 1995
WEAPON SYSTEM	Ident.	FY 94	Qty	E	À	FY 96	96 Oty FY 97	FY 97	φ
COST ELEMENTS	<del>в</del> 80	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. M139 Dispenser (M548 AMMO CARRIER)	⋖	84, 813	121 10,262	83, 721	179			84, 657	35
2. M139 Dispenser (5-Ton TRUCK)	⋖	84, 813	45 3,817						
Subtotal HARDWARE COST			14,079		14,986				2,963
<ol> <li>Project Management Administration</li> <li>Engineering Support</li> <li>Documentation</li> <li>Quality Assurance</li> <li>Acceptance Testing</li> </ol>			315 1,114 100 125 200		100 978 50 80		100 773 0 80		150 1040 0 120
Subtotal SUPPORT COST			1,854		1,208	-	953		1,310
GROSS P-1 END COST			15,933		16,194		953		4,273
Weapon System Unit Cost		95, 982		90, 469				122, 086	

Exhibit P-5 Weapon System Cost Analysis

(page 2 of 5)

BUDGET PROCUREMENT HIS APPROPRIATION/BUDGET ACTIVITY		UREMENT	Ī	AND PL	ISTORY AND PLANNING EXHIBIT (P-5A)	EXHIBIT	(P-5A)	A. DATE Fe	February 1995	95
Other Procurement, Army 3-Other Support Equipment	port Equipment	=			C. P-1 LINE ITEM NOMENC Dispenser, Mine M139	C. P-1 LINE ITEM NOMENCLATURE Dispenser, Mine M139	TURE		(039100)	
		CONTE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV BEO:D	IF YES, WHEN
1. M139 Dispenser w/ Installation Kit for M548 AMMO CARRIER FY 92   Brunswick DeLand FI   C/FP   APPEC	or M548 AMMO CARF	CARF	ARRIER	00 014						
C/FP		ABC	) ) )	APR 95	JUL 96	130	93,931 84,813	YES		
IO BE SELECTED C/FP ARE		ARC	ARDEC	APR 95	MAY 97	179	83,721	YES		
To Be Selected Option ARDEC		ARD	E E	DEC 96	MAR 98	35	84,657	YES		
2. M139 Dispenser w/ Installation Kit for 5-Ton TRUCK	r 5-Ton TRUCK	_ <b>X</b>								
To Be Selected C/FP ARDEC	•	•	ည္မ	APR 95	FEB 97	45	84,813	YES		•
	<u>-</u> -									
			<del></del>					,		

P-1 SHOPPING LIST ITEM NO. 120 Previous editions are obsolete

Page 3 of 5 Pages Exhibit P-5A Procurement History and Planning



FROME MANUE ACTUMENT   Part of the Percentage	Mac CARHIER)   Cot   C	FY 96 BUDGET PRODUCTION SCHEDULE	N SC	됐	ULE	<u></u>	P-1 Item Nomendature Dispense	mendat Dispe	ure nser, N	nendature Dispenser, Mine M139	39			(63	(039100)					DATE: F	February 1995	y 199	LC LC				
Carry   10   as of   24   Calendor Year   95   Calendor Year   95   Calendor Year   96   Ca	PRDC Prior   due   Section   due   Section   due   d		•	<u> </u>			CALYE	₹		35						FISC	Z X	وا	1	98							
Calculation   Calculation	Company   Comp	_	E •			 																					
V   1 Coc  1 Coc  1 Coc  Nov   Dec Jan   Feb   Mar   Apr   May   Jun   Jul   Mug   Sep   Oct   Nov   Dec Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Ia	V   1 Coci		<u>6</u>			to s	94		alend	r Year		95							alend	\ Y		ľ		İ			
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MAD CAPRIER)	MAC CARRIER)	M139 Dispenser (UH-60 AIR SYS	TEM	$oxed{\sqcup}$	H	H			+	-		$\dagger$	+	1.			1	$\dagger$	+	+	+	_					
MAC CARRIER)  MA	MAC CARRIER)	FY B3	┪	$\perp$	- a			١	11		Ш	H	$ar{H}$	Ц	Ш		$\prod$	$\dagger \dagger$	H	+	+	$\downarrow$	$\bot$	$\downarrow$	$oxed{T}$		
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12   0   12   1   1   1   1   1   1   1   1	12   0   12   12   12   12   13   14   15   14   14   15   14   14   15   14   14	1. M139 Dispenser (M548 AMMO	CARR	圓	H					+			+	1							Н	H	Ц				
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Secondary   Seco	10   10   10   10   10   10   10   10	FY 95	_	ا	히	179					∢.						T	t	$\dagger$	+	+	1	$\downarrow$	1	┵	18	83
Fig. 10   35   10   10   10   10   10   10   10   1	1	FY 96	$\perp$	4	+	-						-	_				T	t	t	+	╀	$\downarrow$	1	1			179
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18   445   10   9   6   10   10   10   10   10   10   10	18   445   10   9   6   10   10   10   10   10   10   10	9 M139 Discour, (F T. T. T. I.)	ـــا <sub>.</sub>	$\downarrow$	+	1	1	1	$\dashv$	$\dashv$								$\dagger$	$\vdash$	╀	-	_	$oldsymbol{\downarrow}$				ဒ
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18   445   10   9   6   10   10   10   10   10   10   10	18   445   10   9   6   10   10   10   10   10   10   10		1	_	+	1	1	+	1	$\downarrow$						П			$\vdash$	$\vdash$	igdash	-	$\downarrow$				
Production rates   Total   Name   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Ia	Production rates   The continuity   Th		4		$\perp$	,	_	L				+	4							-		L	L	L			
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production rates         mon         Procurement Lead Time         Manu-         total         remarks           Sust         Max         Admin leadtime         Manu-         fotal         Admin leadtime         Manu-         fotal         Admin leadtime         Driver         factruing         after         after         factruing         after         factruing         after         factruing         after         after         factruing         after         after         after         after         after         after         after	production rates         mon         Procurement Lead Time         Manu-         total         remarks           Sust         1.8.5 Mex         bo         Admin leadtime         Manu-         total         Quantities in Units           5         18         30         1 Oct         1 Oct         Time         1 Oct           5         18         30         5         16         21           reorder         3         2         16         18					ő	Nov	3 3 8		War	Apr	Aay Ju	Jul 1	Aug	_	Oct	Š	30	7	2	$\boldsymbol{\tau}$	May	Ę	3			later
Cation Min 1.8.5 Max         Nax         Nax         Admin leadtime         Manu-         total         remaintered time           5         18         30         1 Oct         1 Oct         7 Ime         1 Oct           5         18         30         initial         3         5         16         21           remains	Cation Min 1.8.5 Mex         to         Admin leadtime         Manu-         total         remaintered in the leadtime         Manu-         total           5 18 30         1 Oct         1 Oct         1 Oct         1 Oct         21           5 18 30         initial         3 5 16 21         21           reorder         3 2 16 18         18		ğ	ductio	n rat		_			tran	Time				ſ	L	ľ										
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Page 4 of 5 Pages

DD Form 2445, JUL 87

DATE: February 1995	NR 99	Calender Veer 00	ğ													Aug Sep Oct Nov Dec Jan Feb Mer Apr May Jun Jul Aug Sep
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P-1 Item Nomenclature Dispenser, Mine M139	FISCAL YEAR 98	Calender Year 98	Nov Dec Jan Feb Mar Apr N					18 18 18 1	;	(A)					18 18 18 18 18	Feb Mar
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FY 96 BUDGET PRODUCTION SCHEDULE	FISCAL YEAR 97	96 Calender Year	Oct Nov Dec Jen Feb Mer Apr	O AIR SYSTEM)		48 AMAO CABBIED)	18 18 18 11		<		on TRUCK)	7 18			18 18 18 18 18	Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
FY 96 BUDGET PRO	ITEMMANUFACTURER	PROCUPEMENTYEAR		M139 Dispenser (UH-60 AIR SYSTEM)	Brunswick Corp FY 93	1. M139 Dispenser (M548 AMM) CABBIED)	To Be Selected FY 94	FY 85	FY 97		C. M139 Dispenser (5-1on TRUCK)	To Be Selected FY 94				_

Page 5 of 5 Pages

DD Form 2445, JUL 87

P-1 Line No. 120

REPORTS CONTROL SYMBOL		UNCLASSIFIED	FIED					
DD-COMP(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	TEM JUS.	TIELCATI	FEET				i c
APPROPRIATION /BUDGET ACTIVITY							UATE February 1995	1995
Other Procurement: Army 3				P-1 ITEM NOMENCLATURE:	CLATURE:			1
Other Support Equipment				ואופוקוווס ואוווופ	wetaine wille Detector, Venicle Mounted	se Mounted		(M80100)
	FY94	FY95	FY96	FY97	FY98	FY99	FYOO	EV01
QUANTITY				2.1	3.4	32	2	
				7	† O	2.4		
COST (IN MILLIONS)				6.8	6.6	6.7		

mounted on the ATV which provides real-time imagery. The Detector Head, the mine detector of the system, is towed by the ATV. It will signal the Control Station and leave a DESCRIPTION: This detector is a remotely operated vehicle detector. The system consists of three main components: Remote All Terrain Vehicle (ATV), Detector Head and mark on the ground where there has been a detection. The Control Station, the brains of the system, records the location of the detection on a computer hard drive. This Control Station. The remote ATV is a six wheeled all terrain diesel powered vehicle whose movements are controled from the Control Station via telemetry and a camera information is then relayed to the host vehicle commander. The Control Station is portable and can be operated out of any vehicle which has a 24 volt battery system. JUSTIFICATION: The U.S. Army has no remote ground based detection capability. This detector will give the U.S. Army an organic, continuously responsive, in-stride capability for on-route detection or avoidance of mines emplaced along lines of communication. The FY 97 funds will begin initial fielding of this capability.

Page of Pages	,	EXHIBIT P-40
	UNCLASSIFIED	
P-1 SHOPPING LIST		PAGE NO 1 OF 6
		ITEM NO 121
	DD Form 2454, Jul 88	

SYSTEM COST	A. Appro	A. Appropriation/Budget Activity/No.	1et Activity/	Š.	B WEAPON MODE! MAME	MODELAN			To do a tra				
ANALYSIS	2							C. MANGLACIONES NAME				D. DATE	
		Outer Producement Army 3	Army 3		Metallic Mine Detector,	line Dete	ctor,	PLANT CITY/STATE LOCATION	STATE LO	CATION		February 1995	7 1995
EARIBII (P-5)	Other S	Other Support Equipment	pment		Vehicle Mounted		(M80100)	To Be Selected	ected				
THONG NO WENT		FY 94	n [	0	FY 95	QTY=	0	FY 96	OTY = 0	0	FY 97	OTV.	2
COST ELEMENT	SODE 1	COST	QTY (EA)	TOTAL (\$000)	COST	QTY (EA)	TOTAL (\$000)	UNIT	QTY (FA)	TOTAL	UNIT	OTY (A)	TOTAL
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Metallic Mine Detector, Vehicle Mounted	<b>&amp;</b>										273,000	2	5,733
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		****					na.						•
SUBTOTAL													5.733
PRODUCTION SUPPORT						· .							
PROJECT MGT ADMIN PRODUCTION ENGINEERING QUALITY ASSURANCE ACCEPTANCE TESTING DOCUMENTATION							·					· · · · · · · · · · · · · · · · · · ·	155 565 102 75
SUBTOTAL													60
TOTAL P-1 LINE ITEM											321 RE7		9
										1	1/00/170		6,755

P-1 ITEM NO. 121

PAGE NO 2 of 6

Exhibit P-5

								A DATE		
œ	BUDGET PROCUREMENT HIST	MENT HI	STORY AN	ID PLAN	INING EX	ORY AND PLANNING EXHIBIT (P-5A)			February 1995	Ω
B. APPROPRIATE	B. APPROPRIATION/BUDGET ACTIVITY			-	C. P-1 LINE ITE	C. P-1 LINE ITEM NOMENCLATURE	URE			
	Other Procurement Army 3 Other Support Equipment	က			Metallic Min	Metallic Mine Detector, Vehicle Mounted	shicle Mounte		(M80100)	
		CONTRACT			DATE OF			SPECS	SPEC	IF YES
LINE ITEM	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	QUANTITY	LNO	<b>AVAILABLE</b>	REV	WHEN
FISCAL YEAR		& TYPE	ВУ	DATE	DELIVERY	(each)	COST	MON	REQ'D	<b>AVAILABLE</b>
I Metallic Mine	 Metallic Mine Detector, Vehicle Mounted	pe								·
FY 97	To Be Selected	SS/FP	CECOM	Mar 97	Feb 98	21	273,000.00	8	YES	Sep 96
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D. REMARKS										
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P-1 SHOPPING LIST ITEM NO 121

Previous editions are obsolete

Page 3 of 6 Pages Exhibit P-5a

DD FORM 2443, Jun 86

P-1 Line No. 121

PAGE NO. 4 of 6



FY 96 BUDGET PRODUCTION SCHEDULE	SCH	EDUI		<u>a</u>	P-1 Item Nomenclature Metallic I	Me	nenclature Metallic Mi		etecto	r, Veh	icle M	ne Detector, Vehicle Mounted	1	(M80100)	6				DATE	Febr	February 1995	1995				
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FY 96 BUDGET PRODUCTION SCHEDULE	ODUCT	O	SCI	말		ш						<u>-</u>	E	P-1 Item Nomenclature Metallic Mi	inclati Billic	Min	0	omenclature Metallic Mine Detector, Vehicle Mot (M80100)	8	다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다 다	Mo	W.	30.00	6	ł			DATE:	Feb.	February 1995	8	စ်				
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6 Pages

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REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

BUDGET ITEM JUSTIFICATION SHEET

DATE February 1995

MF9300)

FY 01

FY 00

FY 99

FY 98

**FY 97** 

FY 96

FY 95

FY 94

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COST (IN MILLIONS)

QUANTITY

AIR CONDITIONERS, VARIOUS SIZE/CAPACITY P-1 ITEM NOMENCLATURE APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

6,000 to 60,000 BTU, in a wide range of frequencies and currents, plus two system peculiar 18,000 BTU ECUs that support the Patriot Missile and the Standard and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment must be maintained in a clean, dry DESCRIPTION: This budget line represents the Army's family of tactical Environmental Control Units (ECU's), AKA Air Conditioners. They range in size from satellite communications, intelligence gathering systems, Petroleum and Water Logistics Iaboratories, electronic shop sets, Test, Measurement and Diagnostic command, control, and communications oriented. Other applications include Apache cockpit instruments cooling (Desert Storm), ground support equipment, operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by Integrated Command Post Shelter. All ECUs are base mounted and electric motor driven. Air conditioners provide cooling, heating, dehumidification electrical equipment itself. Air conditioners support 181 separate tactical major weapon systems. The majority of the weapon systems are Equipment (TMDE), aviation shop sets, and topographic support sets. JUSTIFICATION: Air conditioners are required as a component or separately authorized in support of fielded major tactical weapon systems. They are required to fill existing shortages or provide replacements for assets that are overage, non supportable and non repairable. Air conditioners are critical to the system they support. Without them, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

DD Form 2454, Jul 88

ITEM NO 122 PAGI

P-1 SHOPPING LIST

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Pages

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EXHIBIT P-40

REPORTS CONTROL SYMBOI				UNCLASSIFIED					
DD-COMP(AR) 1092	\$	WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			NATE Eshaisa, 1005	1005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE AIR CONDITIONER, V	IONER, VAR	P-1 ITEM NOMENCLATURE AIR CONDITIONER, VARIOUS SIZE, CAPACITY	CAPACITY	1995 1995
		MANUF,	MANUFACTURER NAME	1	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		(MF-9300)
			NSTATE LOCATI	<u> </u>	ENVIRONME	ENTAL CONT	ENVIRONMENTAL CONTROL UNIT (ECU)	Ecu)	
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST   FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
M811 Air Conditioner, 36,000 BTU C/H	٧		947 6,142		479				254
M899 Air Conditioner, 18,000 BTU C/V	∢						50 286		
M910 Air Conditioner, 9,000 BTU C/V	∢						100		
M918 Air Conditioner, 18,000 BTU C/H	∢						460		
				-			2,418		
									7.1.
									-
TOTAL		·	6,142		2,995		3,176		1,520
		P-	P-1 SHOPPING LIST					Page	of Pages
		ITEM NO 122	122	GE NO 2 OF	19	UNCLASSIFIED	SIFIED	EXH	p-5

(	UND		BUDGET ITEM JUSTIFICATION SHEET	D.1 ITEM NOMENOI ATILDE
		REPORTS CONTROL	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3 Other Support Equipment

AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL

P-1 ITEM NOMENCLATURE

DATE February 1995

(M81100) FY 01 FY 00 FY 99 FY 98 FY 97 254 5. FY 96 FY 95 479 3.0 FY 94 947 6.1 COST (IN MILLIONS) QUANTITY

equipment must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, fire directional support provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This DESCRIPTION: This air conditioner is a 36,000 BTU, compact horizontal, 3 phase, 50/60 HZ, 208V base mounted model. It is electric motor driven and systems, laboratories, radar, aircraft and electronic shop sets. Specific examples include the Decentralized Automatic Computer System (DAS-3), and the Corps/Theater ADP Service Center (CTASC-11).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. Systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

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	ITEM NO 122
	DD Form 2454, Jul 88

**EXHIBIT P-40** 

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	WEAPON	ON SYS	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE Eab	100
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE AIR CONDITIONER, 30	IONER, 36,0	P-1 ITEM NOMENCLATURE AIR CONDITIONER, 36,000 BTU COMPACT HORIZONTAL	PACT HORIZONTAL	ZONTAL
	<b>T</b>	MANUFA ANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POF	ULAR NAME		(M81100)
	AIR	racs, RI	AIRTACS, REDLION, PA		ENVIRONME	ENTAL CON	ENVIRONMENTAL CONTROL UNIT (ECU)	Ecu)	
Weapon System Cost Elements	IDENT F	FY 94 UNIT COST	Quantity	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
ITEM HARDWARE	∢	5,710	947	5,710	479	600	T SO THE COST	UNIT COST	TOTAL COST 254
GOVERNMENT ENGINEERING			665		219				
WARRANTY			70		4				22
TOTAL	,	6,486	6,142	6,253	2,995			5,984	1,520
		P-1 (	P-1 SHOPPING LIST					Page of	f Pages
	=	TEM NO 122		AGE NO 4 OF 19	6	UNCLASSIFIED	SIFIED	EXH	5-0
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DD-COMP(AR) 1092  APPROPRIATION /BUDGET ACTIVITY Other Support Equipment  CONTRACT  COST ELEMENT  CONTRACTOR  AND LOCATION  R TYPE  FY 90  AIRTACS, REDLION, PA  C/FP-REQ-3(1)  FY 95  AIRTACS, REDLION, PA  C/FP-REQ-3(2)  FY 95  AIRTACS, REDLION, PA  C/FP-REQ-3(3)  FY 97  AIRTACS, REDLION, PA  C/FP-REQ-3(3)							)		
Y PA A A A A A A A A A A A A A A A A A A	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	OKY AND	PLANNING E	XHIBIT		DATE February 1995	ruary 199	2	
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CONTRACTOR AND LOCATION AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA		AIR COND	ITIONER, 36	AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL	MPACT HOR	RIZONTAL		( M81100 )	
CONTRACTOR AND LOCATION AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA			DATE OF			SPECS	SPEC	IF YES,	
AND LOCATION AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA	CONTRACTED	AWARD	FIRST		FIND	AVAILABLE	REV	WHEN	
AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE	
AIRTACS, REDLION, PA AIRTACS, REDLION, PA AIRTACS, REDLION, PA	TROSCOM	Jan 91	May 95	377	5,710	YES	ON		
AIRTACS, REDLION, PA AIRTACS, REDLION, PA	ATCOM	Jun 94	Dec 95	947	5,710	YES	9		
AIRTACS, REDLION, PA	ATCOM	Nov 94	Apr 96	479	5,710	YES	9		
	ATCOM	Nov 96	Apr 97	254	5,710	YES	9		
FAT accepted May 94.									

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PAGE NO 5 OF 19

**ITEM NO 122** 

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**EXHIBIT P-5A** 

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		DATE February 1995		IZONTAL		8	CALENDAR VEAD		ED MAK APK MAY JUN JUL			26 200 200 53					FEB MARI APRI MAY JUN JUL A 1/3 SEP OCT NOW DEC 100 100 200 200 200 53	BIMAR APKIMAY JUN JULI	FY 90 CONTRACT BASSED EAT MAY 94	DELIVERY SCHEDULE QUANTITY RENEGOTIATED	FOR ALL ORDERING PERIODS AFTER BASE AWARD	SCHEDULE SHOWS ACTUAL CONTRACT DELIVERY	SCHEDULE FOR FY90 BUY.		Page of Pages	ЕХНІВІТ
				AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL		FISCAL YEAR	<u>A</u>	JUL AUG SEP OCT NOV DEC. IAN EER MAD ADD MAY III.	50 50 57	; £	2007					5	EP OCT MON DEC 1AN ES	REMARKS	EY 90 CONTR		TOTAL	AFTER SCHEDULE (	_			UNCLASSIFIED
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UNCLASSIFIED		20000	,	-			EAR 94	JUN JUL		4								PRODUCTION	RATES	0 0	2 6	007 007 0			P-1 S	ITEM NO 122
	Ω				FISCAL YEAR 94		93 CALENDAR YEAR	OCT NOV DEC JAN FEB MAR APR MAY									OCT NOVIDEC JAN FEB MAR APR MAY JUN JUL		1	***************************************						
	SYMBOL	OGET ACTIVITY	: Army 3	ipment	ACCEP BAL F	DUE	TO AS OF	1 OCT 1 OCT	377	947	479		254			2057	δ		MANUFACTURERS NAME	& LOCATION	ION PA				L 87	
	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY	Other Procurement: Army 3	Other Support Equipment	v			ㅗ	1 A 90 377	1 A 94 947	1 A 95 479	8	1 A 97 254			TOTALS				· ·	1 AIR TACS, REDLION PA				DD Form 2445, JUL 87	

(M81100) œ ш AUG SEP OCT NOV DEC JAN FEB MAR APRIMAY JUN JUL AUG SEP JAN | FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP|OCT|NOV|DEG|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP| Pages **EXHIBIT P-21** . DATE February 1995 ð g AIR CONDITIONER, 36,000 BTU, COMPACT HORIZONTAL CALENDAR YEAR Page 8 REMARKS FISCAL YEAR UNCLASSIFIED 24 AFTER TOTAL 1 OCT MANUFACTURING 8 9 킼 PRODUCTION LEAD TIME JAN FEB MAR APR MAY JUN P-1 ITEM NOMENCLATURE 8 1 OCT 9 ADMIN LEAD TIME PRIOR AFTER CALENDAR YEAR 1 OCT 86 REORDER INITIAL 1 OCT OCT NOVIDEC JAN FEB MAR APRIMAY JUN JUL AUG SEP OCT NOVIDEC OCT NOVIDED JAN FEB MARIAPRIMAY JUNI JUL AUGI SEP OCT NOVIDED FISCAL YEAR PAGE NO 7 OF 19 PRODUCTION SCHEDULE MONTHS TO AFTER D DAY REACH MAX P-1 SHOPPING LIST UNCLASSIFIED MAX 220 **PRODUCTION** 1-8-5 RATES ITEM NO 122 8 ğ 200 97 8 CALENDAR YEAR ₹ B 97 FISCAL YEAR 8 ⋖ MANUFACTURERS NAME AS OF 254 DUE 254 BAL & LOCATION APPROPRIATION /BUDGET ACTIVITY 1 OCT ACCEP PRIOR 947 479 377 1803 Other Procurement: Army 3 AIRTACS, REDLION, PA 2 MBOL Other Support Equipment DD Form 2445, JUL 87 947 479 254 377 ΩT REPORTS CONTROL DD-COMP(AR) 1092 U/M EA F TOTALS ß 8 8 97 SШK > ⋖ ⋖ ⋖ ⋖ H V ပ T A O

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REPORTS CON SL SYMBOL		
DD-COMP(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	DATE February 196
APPROPRIATION /BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
Other Procurement: Army 3		!
Other Support Equipment	AIR CONDITIONER,	AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL

DATE February 1995

FY 01 (M89900) FY 00 FY 99 FY 98 FY 97 FY 96 0.3 20 FY 95 9 ₹ COST (IN MILLIONS) QUANTITY

must be maintained in a clean, dry operating environment, where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill controlled is produced by the electronic equipment itself. This air conditioner supports approximately twenty-five different major weapon systems including the DESCRIPTION: This air conditioner is a 18,000 BTU, compact vertical, 3 phase, 60 HZ, 208V base mounted model. It is electric motor driven and provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment base set test facility, electronic shop shelter, and a wide variety of communications, radio, air traffic control, and relay terminal control facilities.

itical to the systems it les on new fielding of cal line or pacing item	Page of Pages	EXHIBIT P-40
This air conditioner is critical lired to fill urgent shortages o conditioners are the critical li	UNCLASSIFIED	
on supportable and not repairable.  Ing basis, air conditioners are reque air conditioners. Frequently, air	P-1 SHOPPING LIST	PAGE NO 8 OF 19
ents for assets that are overage, no perable. Additionally, on a continu ems cannot be fielded without thes		ITEM NO 122
existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.	DD Form 2454, Jul 88	

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	WEA	PON SYS	TEM COST	WEAPON SYSTEM COST ANA! YSIS EXHIBIT	HaidX				
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE AIR CONDITIONER, 1	ENCLATURE TIONER, 18,0	P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL	DATE February 1995 IPACT VERTICAL	uary 1995 TICAL
		MANUFAC	MANUFACTURER NAME		WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		(M89900)
	KEC	KECO, FLOR	FLORENCE, KY	<u>S</u>	ENVIRONME	ENTAL CON	ENVIRONMENTAL CONTROL UNIT (ECU)	(00)	
Weapon System Cost Elements	IDENT F	FY 94 UNIT COST	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
ITEM HARDWARE					IOIAL COST	ONII COSI	TOTAL COST	UNIT COST	TOTAL COST
GOVERNMENT ENGINEERING						5,125			
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								EXF	P-5

	35			( M89900)	IF YES,	WHEN	A			
	nary 199				SPEC	REV	REQ'D	S.	8	
	DATE February 1995		TICAL		SPECS	AVAILABLE	MON	YES	YES	
			MPACT VER			LIND	COST	5,125	5,125	
	EXHIBIT		AIR CONDITIONER, 18,000 BTU COMPACT VERTICAL				QUANTITY	235	20	
Ω	PLANNING	P-1 ITEM NOMENCLATURE	DITIONER, 18		DATE OF	FIRST	DELIVERY	Apr 94	May 96	
SSIFIED	<b>FORY AND</b>	P-1 ITEM NO	AIR CON			AWARD	DATE	Feb 93	Nov 95	
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT					CONTRACTED	ВУ	ATCOM	ATCOM	
	BUDGE				CONTRACT	METHOD	& TYPE	C/FP-REQ-3(1)	C/FP-REQ-3(2)	
SYMBOL	2	BUDGET ACTIVITY lent: Army 3	equipment			CONTRACTOR	AND LOCATION	KECO, FLORENCE, KY	KECO, FLORENCE, KY	
REPORTS CON	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	Other Support Equipment			COST ELEMENT/	FISCAL YEAR	FY 93	FY 96	SAMAN BANAN BANAN

REMARKS
Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.

Page of Pages		EXHIBIT P-5A
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P1 SHOPPING LIST		PAGE NO 10 OF 19
	:	ITEM NO 122

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LSYMBOL								
	PRODUCTION SCHEDULE	L F				DATE Cabriga, 1005	1005	
APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3		P-1 ITEM NOMENCLATURE	ENCLATURE			and a second	Ceel	
Other Support Equipment			!					
		AIR CON	OITIONER,	, 18,000 BTU,	AIR CONDITIONER, 18,000 BTU, COMPACT VERTICAL	RTICAL		
S ACCEP BAL FISCAL YEAR 94	i Control							(M89900)
E U/M EA PRIOR DUE	LISCA	FISCAL YEAR 95			FISCAL YEAR	8		4
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F MANUFACTURERS NAME	RATES		-	Š.	REMARKS	÷4:		
					Award D	Award Date and Delivery Date are Actual.	ate are Actual.	
			<b>ADMIN LEAD TIME</b>		Delivery	Delivery was negotiated for customer	Customer	
	MIN 1-8-5 MAX AFTER D DAY	<b>-</b>	2	MANIJEACTIONIC				
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## BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE

DATE February 1995

AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL

Other Procurement: Army 3 Other Support Equipment

APPROPRIATION /BUDGET ACTIVITY

DD-COMP(AR) 1092 REPORTS CO

**DL SYMBOL** 

								(M91000)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	EY OO	EV 04
						?		1 0
QUANTITY			100					
COST (IN MILLIONS)			0.5					

DESCRIPTION: This air conditioner is a 9,000 BTU, compact vertical, 3 phase, 50/60 HZ, 208 V base mounted model. It is electric motor driven and provides must be maintained in a clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat that must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar, and aircraft cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans. This equipment and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include the troposcatter radio terminal (AN/TRC-170), the flight line test set (AN/TM-Q-31), and the surveillance information system (AN/TAQ-1).

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of high priority weapon systems. The systems cannot be fielded without the air conditioners. Frequently, air conditioners are the critical line or pacing item in the fielding of new systems.

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APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE AIR CONDITIONER, 9, 0	IONER, 9,00	P-1 ITEM NOMENCLATURE AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL	DATE February 1995 ACT VERTICAL	uary 1995 CAL
		MANUFA	MANUFACTURER NAME	2	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POF	ULAR NAME		(M91000)
			TBS	5	ENVIRONME	ENTAL CON	ENVIRONMENTAL CONTROL UNIT (ECU)	(no:	
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
ITEM HARDWARE	∢				200	1802	101AL COST	UNIT COST	TOTAL COST
GOVERNMENT ENGINEERING						4,200	420		
WARRANTY			·				P		
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TOTAL						4,720	472		
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DD-COMP(AR) 1092	<b>.</b>	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	FORY AND	PI ANNING F	:XHIRIT		DATE Eshanar 1005	100	ų
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	BUDGET ACTIVITY Ient: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE			1 2 2	lual y 199	
Other Support Equipment	Equipment			AIR COND	ITIONER, 9,	AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL	PACT VERT	ICAL		
										(M91000)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
FY 87	KECO	C/FP-REQ-3	TROSCOM	Jan 87	Jul 87	47	4,928	YES	0	
FY 96	TBS	C/FP-REQ-3(1)	ATCOM	May 96	Oct 97	100	4,200	YES	9	
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REMARKS
Last buy on this item was in 1987. Configuration at that time was 3 Phase 50/60 Hertz.
Configuration to be bought in FY 96 will include multiple power input technology.

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DD-COMP(AR) 1092			PRO	PRODUCTION	ON SC	CHEDULE	E		i				٥	DATE February 1995	ary 1005		
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	DGET ACTIVITY						<u>,</u>	P-1 ITEM NOMENCLATURE	ENCLATUR	ш							
Other Support Equipment	ipment						⋖_	AIR CONDITIONER, 9,000 BTU, COMPACT VERTICAL	ITIONE	국, 9,000 E	STU, CO	MPACT	VERTIC	Ą.			
						H											(M91000)
_	ACCEP BAL	FISCAL YEAR 96				FISC	FISCAL YEAR	97			<u> </u>	FISCAL YEAR	86				<u> </u>
ח מצ		88	CALENDAR YEAR	8													<u>-</u>
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DD-COMP(AR) 1092	BUDGET	ITEM JU	DGET ITEM JUSTIFICATION SHEET	TION SH	IEET		DATE February 1995	IV 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment				AIR CONDIT	10NER, 18,0	00 BTU, COA	AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL	ZONTAL
								(M91800)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			460					
COST (IN MILLIONS)			2.4					

This equipment must be maintained in clean, dry operating environment where temperatures are maintained below 85 degrees Fahrenheit. A major source of heat and aircraft and electronic shop equipment. Some of the specific major weapon systems supported by this air conditioner include joint stars radar ground station hat must be controlled is produced by the electronic equipment itself. These systems include command, control and communications, laboratories, radar DESCRIPTION: This air conditioner is a 18,000 BTU, compact horizontal, 3 phase, 60 HZ, 208 V base mounted model. It is electric motor driven and module, satellite communication and tracking system, Joint Tactical Distribution System (JTIDS), and the Position Location Reporting System (PLRS) provides cooling, heating, dehumidification and air filtering in support of environmentally sensitive electronic equipment in mobile shelters and vans.

JUSTIFICATION: This air conditioner is required as a component or separately authorized item in support of fielded major tactical systems. It is required to fill high priority weapon systems. The systems cannot be fielded without these air conditioners. Frequently, air conditioners are the critical line or pacing item existing shortages or provide replacements for assets that are overage, non supportable and not repairable. This air conditioner is critical to the systems it supports, without it, the systems are inoperable. Additionally, on a continuing basis, air conditioners are required to fill urgent shortages on new fielding of in the fielding of new systems.

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		ITEM NO 122
	DD Form 2454, Jul 88	

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DD-COMP(AR) 1092	WEAPC	N SYS	TEM COST	WEAPON SYSTEM COST ANA! YSIS EXHIBIT	XHIBIT			L	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE AIR CONDITIONER, 1	NCLATURE IONER, 18,0	P-1 ITEM NOMENCLATURE AIR CONDITIONER, 18,000 BTU COMPACT HORIZONTAL	DAIE February 1995 PACT HORIZONTAL	Jary 1995 ZONTAL
	1	MANUFAC	MANUFACTURER NAME		WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		(M91800)
	KECO, I	, FLOR	ECO, FLORENCE, KY	Š	ENVIRONME	ENTAL CONT	ENVIRONMENTAL CONTROL UNIT (ECU)	(ກວ:	
Weapon System Cost Elements	IDENT FY	FY 94 UNIT COST	Quantity	TOTAL COST   FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
ITEM HARDWARE	<u> </u>				200	44	460 460	UNIT COST	TOTAL COST
GOVERNMENT ENGINEERING		· · · · · · · · · · · · · · · · · · ·				-	25		<del></del>
WARRANTY							40		***************************************
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TOTAL						5,257	2,418		
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	95		( M91800 )	IF YES,	WHEN	AVAILABLE			
	oruary 199			SPEC	REV	REQ'D	ON	Q Q	
	DATE February 1995		IZONTAL	SPECS	AVAILABLE	MOM	YES	YES	
			MPACT HOR		TINO	COST	5,115	5,115	
	EXHIBIT		AIR CONDITIONER, 18,000 BTU, COMPACT HORIZONTAL			QUANTITY	490	460	
۵	<b>PLANNING</b>	P-1 ITEM NOMENCLATURE	OITIONER, 18	DATE OF	FIRST	DELIVERY	Jul 94	May 96	# L
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SYMBOL		BUDGET ACTIVITY ent: Army 3	quipment		CONTRACTOR	AND LOCATION	KECO, FLORENCE, KY	KECO, FLORENCE, KY	REMARKS No buy during second ordering period of the three year requirements contract Award Date and Delivery Date are Actual. Delivery was negotiated for customer requirement.
REPORTS CONT	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	Other Support Equipment		COST ELEMENT/	FISCAL YEAR	FY 93	FY 96	REMARKS Award Date and

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PAGE NO 18 OF 19

**ITEM NO 122** 

P1 SHOPPING LIST

**EXHIBIT P-5A** 

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DATE February 1995 (MX1010) STANDARD INTEGRATED CMD POST SYSTEM P-1 ITEM NOMENCLATURE BUDGET ITEM JUSTIFICATION SHEET FY 97 FY 96 FY 95 FY 94 PPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 **EPORTS CONTROL SYMBOL** Other Support Equipment D-COMP(AR) 1092

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### ESCRIPTION:

**SOST (IN MILLIONS)** 

UANTITY

This program includes the procurement of five command post variants each designed to accomodate the various nodes of the Army Tactical Command and Control System (ATCCS). These nodes include the Maneuver Control System (MCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Combat Service Support Control System (CSSCS) and the Forward Area Air Defense Command and Control System (FAADC2). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a light-weight, aluminum frame, interchangeable fabric wall sections, fabric roof, floor and liners, work tables, mapboards and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP capable of being mounted to the High Mobility Multipurpose Wheeled Vehicle (HMMWV) Shelter Carrier. The shelter will be integrated with an on-board engine/generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment racks to accomodate two ATCCS workstations and an operator seat.
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ATCCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts and stowage provisions. The converted M577 has been designated the M1068 Track CP.
- (4) Installation Kits for the 5-Ton Expansible Van (E-Van), consisting of racks for up to six ATCCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts and mapboards.
- (5) Installation Kits for the Soft-Top HMMWV consisting of equipment racks for up to two ATCCS workstations, communications patch panel, antenna mounts and operator work surface.

USTIFICATION: SICPS is the house for the Army Tactical Command and Control System. The current command and control facilities in the DOD inventory to not provide the flexibility, commonality and operational compatibility needed to direct and control in a fast-paced and highly ctive combat situation

#### JOTE

-Y 95 and beyond are funded through OPA 2.

Page of Pages	)	EXHIBIT P-40
	UNCLASSIFIED	
		PAGE NO 1 OF 1
P-1 SHOPPING LIST	DD Form 2454, Jul 88	ITEM NO 123

FY01 (R12300) DATE February 1995 FY00 **F**Y99 Chem/Bio Protective Shelter P-1 ITEM NOMENCLATURE: **FY98** BUDGET ITEM JUSTIFICATION SHEET **FY97 FY96** UNCLA **FY95** 29 7.0 **FY94** APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment REPURTS CONTROL SYMBOL COST (IN MILLIONS) DD-COMP(AR) 1092 QUANTITY

Lightweight Multipurpose Shelter mounted on a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) variant and a 300 square foot soft shelter. The system provides full NBC protection for patients and medical personnel. Hydraulic power from the dedicated HMMWV engine provides high reliability and low **DESCRIPTION:** The Chemical Biological Protected Shelter is a new system designed to replace the M51 Chemically Protected Shelter. It consists of a maintability requirements for the system.

#### NOTE:

Program after FY95 funded under Procurement, Defense-Wide Budget Activity 3.

		P-1 SHOPPING LIST	T		Page of Pages	_
DD Form 2454, Jul 88				UNCLASSIFIED		
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REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	>	VEAPON SY	STEM COST	WEAPON SYSTEM COST ANALYSIS EXHIBIT	XHIBIT			DATE February 1995	IIV 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement Army 3					P-1 ITEM NOMENCLATURE	NCLATURE			
Other Support Equipment					Chem/Bio Protective Shelter	otective Shel	Iter	(R12300)	
		MANUF, PLANT CIT	MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POF	ULAR NAME		
			SEE P-5A			,			
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity	TOTAL COST I FY 95	TOTAL COST IN THOUSANDS OF DOLLARS  FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
HARDWARE ENGINEERING GOVT CONTRACTOR DATA	<b>ω</b>			183,000	29 5,307 600 (200) 1,082				
TOTAL	1			241,000	6,989				
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ITEMN	ITEM NO 124	PAGE NO	2	OF 5				是XI	EXHIBIT P-5

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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING E	EXHIBIT		DATE	DATE February 1995	1995
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•				Chem/Bio	Chem/Bio Protective Shelter	helter				(R12300)
COST ELEMENT/	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED	AWARD	DATE OF FIRST DELIVERY	YLILANDILA	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
95	TBS	C/FP M-2(1)	ATCOM	Jun 95	96 Inc	30	183,000	}	9	
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REMARKS										
10 (2.24)										

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Page

UNCLASSIFIED

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PAGE NO

ITEM NO 124

P-1 SHOPPING LIST

**EXHIBIT P-5A** 

UNCLASSIFIED PRODUCTION SCHEDULE DATE February 1995	P-1 ITEM NOMENCLATURE Chem/Bio Protective Shelter	R 95 FISCAL YEAR 96 FISCAL YEAR 97 A	CALENDAR YEAR 96 CALENDAR YEAR 97	OCT NOVIDEC JAN FEB MAR APRIMAY JUN JUL AUG SEP OCT NOVIDEC JAN FEB MAR APRIMAY JUN JUL AUG SEP OCT NOVIDEC JAN FEB MAR APRIMAY JUN JUL AUG SEP R	4 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					2 4 4 6 0 0	AUG SEP OCT NOV DE	N N	RATES MONTHS TO	MIN 1-8-5 MAX AFTER D.DAY	2 10 15 2 PRIOR AFTER TIME	1 007 1 007	INITIAL 2 9 14 23	REORDER 4 3 5 8	-	UNCLASSIFIED
IFIED S C H I				JUN	<b>4</b>									1-8-5 MAX	2 10 15				P-1 SHOPPING	
(EPORTS CONTROL SYMBOL D-COMP(AR) 1092	oppropriation /BUDGET ACTIVITY Procurement, Defense-Wide Sudget Activity 3, Chemical Biological Defense	S ACCEP BAL FISCAL YEAR 95 F E UM EA PRIOR DUE	R TO AS OF	V FY QTY 10CT 10CT	29 29 29					TOTALS 29			MANUFACTURERS NAME		1 TBS					DD Form 2445, J

CODE "B" ITEM DESCRIPTION	DATE: September 1994	REPORT CONTROL JOL DD-COMP(AR)1092
Other Support Equipment	Chem/Bio Protective Shelter	(R12300)

CURRENT DEVELOPMENT AND TEST STATUS

JEV TEST & EVAL (DT&E) PLAN/ACTUAL
USER TEST PLAN/ACTUAL
OPERATIONAL TEST PLAN/ACTUAL
AVAIL DATE OF TECH DATA PKG

CURRENT LAST REPORTED
JUN 93-SEP94 JUN 93-APR 94
Sep-94 JAN 94-APR 94
Sep-94 Jun-94

LIMITED PROTOTYPES EXPANDED TEST SCHEDULE LOGISTICS ISSUES AFFECTING

REASON FOR DELAY

SCHEDULE DATE

**UNRESOLVED LOGISTICS ISSUES** 

SLIPPAGE OF DT.

SEP 96 TC STD DEC 94 TC-LPU SHELTER SYSTEM, COLLECTIVE PROTECTION, CHEMICAL/BIOLOGICAL STIMATED DATE OF APPROVAL FOR SERVICE USE: QUIPMENT ITEM(S) TO BE REPLACED:

# XTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED: Replaces M51CB Sheller 1) INCREASED MOBILITY 2) REDUCED SYSTEM WEIGHT 3) INCREASED FLOOR SPACE

EVELOPMENT CONTRACT INFORMATION	Z	RDT&E	RDT&E FUNDING PROFILE (\$ IN MILLIONS)	(SNO)			
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR	ζ	BY1	BY2	BEYOND BYS
SICHNER SHELTER SYSTEMS SHEMFAB	DALLASTOWN, PA BUFFALO NY	HARDWALL SHELTER SOFTWALL SHELTER	3.80	0.276	0.575	0.25	<u> </u>
TOTAL RDT&E FUNDING			4.87	0.276	0.575	0.25	

Page of Pages		EXHIBIT P.19
	UNCLASSIFIED	
P-1 SHOPPING LIST		PAGE NO 5 OF 5
	DD Form 2443, JUL 88	ITEM NO 124

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			LASSIFIED	Q				
REPORTS CONT. SYMBOL			<b>\</b>					
DD-COMP(AR) 1092		<b>BUDGET ITI</b>	EM JUSTIFIC	BUDGET ITEM JUSTIFICATION SHEET	<b></b>		DATE February 1995	1995 7
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3				P-1 ITEM NOMENCLATURE	ENCLATURE			
Other Support Equipment				SPACE HEATER	TER			
								(M19600)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01

**F** 5 0.5

150 0.7

2.4

290

564

\*128

0.7

COST (IN MILLIONS)

QUANTITY

Pexible ducts. It is suitable for arctic use. The main mission of this heater is to heat maintenance tents in cold environments so that soldiers can safely repair a wide variety of equipment such as trucks, tanks, helicopters, Hawk, Patriot, and Multiple Launch Rocket System. Additionally, it supports field artillery and DESCRIPTION: The Army Space Heater (ASH) is electrically powered, requiring maximum 3 kilowatt of external power. It is thermostatically controlled using either diesel or jet petroleum-8 fuels to produce heat. The ASH is mobile and will deliver clean, heated or vented air through sealed detachable, medical units.

deficiencies found in the 250,000 BTU GED heater, specifically gasoline will be replaced by diesel fuel, meeting the DOD regulations to have one fuel on the JUSTIFICATION: This heater is a non developmental item that will replace the current 250,000 BTU gasoline engine driven (GED) heater. It will correct the battlefield. It will be safer for the personnel operating equipment in enclosed areas because it reduces carbon monoxide emissions. The ASH is a stand alone item that supports the function of providing heat for maintenance, operations and comfort.

\*Funded from FY 94 Items Less Than \$2.0M CSS-EQ

Dane Jo		EXHIBIT P-40
	UNCLASSIFIED	
P-1 SHOPPING LIST		PAGE NO 1 OF 5
		ITEM NO 125
	DD Form 2454, Jul 88	

PATE   PATE	REPORTS CONTROL SYMBOL	:			UNCLASSIFIED					
FILTER MONEHOLD TUNE HAME   SPACE HEATER   SPACE HEATER   SSHED	DD-COMP(AR) 1092	\$		TEM COST	ANA! YSIS E	XHIRIT			1	
FNGINEER ANI SYSTEMS, INC.   MODEL H-120, ARMY SPACE HEATER (ASH)	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMI SPACE HEA	ENCLATURE TER		DAIE FEBR	uary 1995
TOTAL CAST IN THOUSANDS OF DOLLARS   TOTAL COST IN THOUSANDS OF DOLLARS   TOTAL COST   TOTAL C		ENGIN ST. LO	MANUFA PLANT CITY EER AIR SY:	CTURER NAME 'STATE LOCATI STEMS, INC.	NOI	WEAPON MOD MODEL H-12	EUSERIES/POF 20, ARMY SF	PULAR NAME	R (ASH)	0000
ting  A 4.906 628 4.904 2.766 4.852 1.407 4.911 2.  TOTAL	Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	IN THOUSANDS  Quantity  TOTAL COST	FY 96	Quantity	FY 97	Quantity
TOTAL 5.234 670 4.986 2.812 4.986 1,440 4.989 of Page NOT 125 PAGE NO 2 OF 5 CHIPPEDS	Item Hardware	∢	4,906							485
TOTAL 5,234 670 4,986 2,812 4,966 1,440 4,969  F.1 SHOPPING LIST  TEM NO 125 PAGE NO 2 OF 5 EXHIPPEDS	Government Engineering			42		46		33		28
5,234 670 4,986 2,812 4,966 1,440 4,969  Page NO 2 OF 5  ITEM NO 125 PAGE NO 2 OF 5  EXHIPP 2-5	Note: FY 94 Program on the Less Than \$2.0M CSS-EQ									
5.234 670 4,986 2,812 4,966 1,440 4,969  P-1 SHOPPING LIST  TEM NO 125 PAGE NO 2 OF 5  UNCLASSIFIED  EXHIPT P-5										
5,234 670 4,986 2,812 4,966 1,440 4,969  Page of Paitem to 125 page no 2 OF 5 EXHIPPEDS										
5,234 670 4,986 2,812 4,966 1,440 4,969  P-1 SHOPPING LIST  ITEM NO 125 PAGE NO 2 OF 5 EXHIPPED-5			<del>7</del>							
5,234 670 4,986 2,812 4,966 1,440 4,969  P-1 SHOPPING LIST  ITEM NO 125 PAGE NO 2 OF 5 EXHIPPED-5										
OPPING LIST UNCLASSIFIED PAGE NO 2 OF 5 EXHIBITES	TOTAL		5,234	670	4,986	2,812	4,966	1,440	989,	2,410
PAGE NO 2 OF 5 EXHIPME			P-1	OPPING LIS		İ	UNCLAS	SIFIED		
			ITEM NO 1		AGE NO 2 OF	- 1			EXHIP	4

REPORTS CONTROL SYMBOL	COL SYMBOL			USSIFIED	Q					
<b>DD-COMP(AR) 1092</b>	92	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	<b>FORY AND</b>	PLANNING E	EXHIBIT		DATE February 1995	ruary 199	r.
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	Equipment			SPACE HEATER	EATER					
										( M19600 )
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
FY 92	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Sep 92	Dec 94	223	4,906	YES	O <sub>Z</sub>	
FY 94	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Aug 94	Feb 95	128	4,906	YES	O <sub>Z</sub>	
FY 95	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(1)	ATCOM	Mar 95	Jun 95	564	4,904	YES	9	***************************************
FY 96	Engineer Air Sys St. Louis, Mo.	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	290	4,852	YES	<u>Q</u>	
FY 97	Engineer Air Sys	C/FP-REQ3(3)	ATCOM	Dec 96	Mar 97	485	4,911	YES	9	
					•					
REMARKS	Three year requirements type contract. Base year expires March 1995, second ordering period expires	type contract.	Base year expires March	1995, seco	nd ordering p	eriod expires				

March 1996, and third ordering period expires March 1997.

FY 92 & 94 programs are reflected on Items Less Than \$2.0M CSS-EQ.

8 Œ <del>28</del> ш cost evaluation and a ozone depleting substance review were (M19800) ◂ requirements. All MC, FMS, and AF are buy back quantities. The FY 95 award delayed due to extensive quantity of ECPs against the new purchase description. A full technical and AUG SEP FEB MARIAPRIMAY JUN JUL AUG SEP OCTINOY DEC JAN FEB MARIAPRIMAY JUN JUL AUG SEP REMARKS: The FY 92 procurement is a first time buy required which delayed contract award. The 27 month Pages manufacturing lead time is due to extensive FAT DATE February 1995 3 AUG SEP OCT NOVIDEC JAN FEB MAR APRIMAY JUN EXHIBIT P 8 ð 8 8 8 submitted by the contractor CALENDAR YEAR 8 8 8 Page FISCAL YEAR ⋖ 69 UNCLASSIFIED 69 20 AFTER 1001 TOTAL 8 8 8 8 MANUFACTURING 8 8 TIME 8 ¥ 8 PRODUCTION LEAD TIME MAY JUN 8 S 8 P 1 ITEM NOMENCLATURE 4 0 Q SPACE HEATER 8 **ADMIN LEAD TIME** 1 OCT AFTER JAN FEB MAR APR 8 6 CALENDAR YEAR 9 8 4 8 1 OCT PRIOR 32 67 8 8 66 NAN REORDER NITIAL AUG| SEP| OCT | NOVIDED 57 OCT NOVIDEG JAN FEB MAR APRIMAY JUN JUL JAUG SEP OCT NOVIDEG FISCAL YEAR 57 PAGE NO 4 OF 5 PRODUCTION SCHEDULE MONTHS TO AFTER D DAY REACH MAX P-1 SHOPPING LIST UPICT ASSITTED ⋖ **4 4** 150 MAX 되 8 ITEM NO 125 **PRODUCTION** OCT NOVIDEC JAN FEBINARI APRIMAY JUN RATES 1-8-5 8 CALENDAR YEAR ß Z 8 FISCAL YEAR 8 AS OF 1 OCT 128 MANUFACTURERS NAME Engineer Air Systems, St. Louis, MO 2864 485 12 <del>5</del> 8 3 1856 BAL & LOCATION APPROPRIATION /BUDGET ACTIVITY ACCEP PRIOR 1 OCT Other Procurement: Army 3 5 PEPORTS CONTROL SYMBOL Other Support Equipment DD Form 2445, JUL 87 23 128 8 82 485 8 7 0 8 7 DD-COMP(AR) 1092 UM EA 7 2 8 TOTALS 92 8 92 92 97 93 94 ш > ⋖ ⋖ ⋖ ¥C ⋖ AF F ٧ ပ Ł ⋖

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₹	er Pro	Other Procurement: Army 3	∄ Army 3																														
₹	er Suç	Other Support Equipment	ipment													SP	SPACE HEATER	EATE	œ												2	(M19600)	6
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ပ	V	FY QTY	1 OCT	1 OCT	200	× DEC	JAN	EBM	AR APE	2 MAY	S.	JU.	NG SE	P OCT	UG SEP OCT NOVIDEC	Į Š	JAN FEB MAR APR MAY IN	MARA	PRIMA	N.	5	101		ALIG SEP OCT NOW DEC	250	NA	IAN FEB MAD ADD WAY	OQV O		2		AI P. CED	, 0
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					OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	V DEC	JAN	EB MA	IR APR	MAY	S N	JUL AL	JG SE	P OCT	Ω ΛΟΝ		JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOW DEC LAN FEB MARA APR MAY	MARA	PRMA	) NO	N N	100	8	N N	DEC	NA.	EB WA	RAPR	MA	N. N. N.		ALIC: SEP	Π
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L		MANCE	MANUFACTURERS NAME	RS NAN	ħ					Æ	RATES		Š	MONTHS TO	5																		
∢			& LOCATION	TION							:			REACH MAX	ΨV		ΔĎ	ADMIN LEAD TIME	D TIM	<u> </u>				_									
								$\dashv$	Z Z	+	1-8-5	MAX	$\rightarrow$	AFTER D DAY	λV					¥ ¥	MANUFACTURING	TURINE		TOTAL									
-	Engin	eer Air Sy	Engineer Air Systems, St. Louis, MO	Louis, N	Q			+	32		8	۳	120		4		PR	PRIOR AFTER	FTER		TIME	,,,	₹	AFTER									
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	9	DD Form 2445, JUL 87	JUL 87																			)	INCLA	UNCLASSIFIED	۵								
									Ē	ITEM NO 125	125		PA	GE NO	PAGE NO 5 OF 5	5													<b>EXHIBIT P-21</b>	™ P.	7		

APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT ARMY				P-1 ITEM NOMENCLATURE:	OMENCIA	FEBRUARY 1995	995
APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT ARMY				P-1 ITEM N	OMENCI A		
OTHER PROCUREMENT ARMY						TURE:	
				SOI DIFE ENHANCEMENT	HANCEMEN	£	
ACTIVITY 3: OTHER SUPPORT EQUIPMENT						1	MAGROO
FY94	FY95	FY96	FY97	FY98	FY99	FY00	FV01
QUANTITY							
COST (IN MILLIONS) \$9.2	0.08	0.08	00	Ş	5	Ş	9

## DESCRIPTION:

survivability. Currently the only item that is being procured under the Solldier Enhancement line is Survival Armor Recovery Vest Insert and Packets (SARVIP). The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their flexibility, mobility, lethality, and SARVIP is a fire retardant survival vest for the Army aviators which incorporates an extraction harness for rescuing downed aviators, a lift preserver for in-water survival, and .50 caliber armor piercing (AP) body armor for pilots and co-pilots.

EXHIBIT P-40

PAGE 1 OF 1 PAGES

P-1 SHOPPING LIST ITEM NO 126 UNCLASSIFIED

		UNCLASSIFIED	FIED					
(EPORTS CONTROL SYMBOL						-		
)D-COMP(AR) 1092	BUDGETI	TEM JUS	FIFICATIO	TITEM JUSTIFICATION SHEET			DATE February 1995	7 1995
(PPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	CLATURE			
Other Procurement: Army 3			-		FORCE PROVIDER	DER		
Other Support Equipment								
								(M80200)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
JUANTITY		2	2	2	2	1	1	2

subsystems: billeting, laundry, latrine, shower, fuel/water/power distribution, waste management, food service, transportation aids, system support package, services for a battalion sized force. Each system is configured as a stand alone module capable of housing 550 soldiers. A module consists of ten basic DESCRIPTION: Force Provider is a system which contains in one package, all the material necessary to provide quality food, billeting, health and hygiene and soldier support services. Force Provider is transportable by rail, sea, roadway, and C-130, C-141, or C-5A aircraft.

10.7

COST (IN MILLIONS)

13.3

emergencies. The Force Provider concept originated in the immediate aftermath of Operations Desert Shield/Storm as a Chief of Staff of the Army initiative to address perceived shortcomings in field service support. The Force Provider concept was reinforced during the aftermath of Hurricane Andrew with the mission to provide humanitarian aid. Force Provider provides for the rest and refit of the combat soldier; thereby, improving the soldiers "Quality of Life" in the field. A total of six stand-alone modules will give the Army the capability to provide services for a contingency corps brigade size force of JUSTIFICATION: Force Provider provides the capability to house, feed and support soldiers and civilians in a short period of time during national 3,300 soldiers.

Page of Pages		EXHIBIT P-40
	UNCLASSIFIED	•
P-1 SHOPPING LIST		PAGE NO 1 OF 14
		ITEM NO 127
	DD Form 2454, Jul 88	

(FPORTS CONTROL SYMBOL				UNCLASSIFIED					
D-COMP(AR) 1092	į	WEAPON SI	STEM COST /	WEAPON SYSTEM COST ANALYSIS EXHIBIT	HBIT			DATE Eshanza 100E	1006
PPROPRIATION /BUDGET ACTIVITY )ther Procurement: Army 3 )ther Support Equipment					P-1 ITEM NOMENCLATURE FORCE I	ACLATURE FORCE PROVIDER	DER	DAIE reorda	V 1995
		MANUF.	MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A	N	WEAPON MODEL	WEAPON MODEL/SERIES/POPULAR NAME	NAME		(MB0200)
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 NIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
HARDWARE COST, FP MODULE TEMPER TENT, TYPE I	∢				9		4		IOIAL COST
TEMPER TENT, TYPE IV	۷			24,667	148	25,000	100	25,250	101
TEMPER TENT, TYPE VII	∢			11,725	1,196	11,853	1,209	11,990	1,223
TEMPER TENT, TYPE VIII	∢			3,250	2	3,250	26	3,375	27
TEMPER TENT, TYPE XV	∢			29,500	59	30,000	60	30,000	60
AIR CONDITIONERS	∢			16,722	301	17,000	306	17,000	306
DISE 100 AMP, R454	∢			4,250	544	4,297	550	4,344	556
DISE 40 AMP, R453	∢			5,569	401	5,625	405	5,694	410
DISE UTILITY KIT, R628	∢			000′9	48	6,125	4 6	6,125	49
FIELD KITCHEN, M869	۷			2,250	135	2,267	136	2,300	138
REFRIGERATOR, MECHANICAL, MTD	∢			9,750	39	9,750	39	10,000	40
REFRIGERATOR, PANEL TYPE	∢			5,750	23	5,750	23	000'9	24
				10,000	40	10,000	40	10,250	41
PAGE TOTAL				· · · · · ·	2,960	<del>37</del>	2,943		2,975
		å.	1 SHOPPING LIST					Page of	Pages
		ITEM NO 127		GE NO 2 OF 1	14	UNCLASSIFIED	IFIED	EX	<u> </u>

Company   Comp	EPORTS CONTROL SYMBOL				UNCLASSIFIED					
The properties of the properties   Part	D-COMP(AR) 1092		WEAPON SY	STEM COST A	NALYSIS EXHI	IBIT			DATE Februar	y 1995
ELIMG SVS. M640  A A TOTAL COST IN THOUSANDS OF DOLLARS  FOR M649  A A A A A A A A A A A A A A A A A A A	PPROPRIATION /BUDGET ACTIVITY )ther Procurement: Army 3 )ther Support Equipment					P.1 ITEM NOMEN	ICLATURE FORCE PROVII	DER		(M80200)
Depart   FY 94   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 97   Quantity   Guantity   FY 97   Quantity   Guantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity   FY 97   Quantity			MANUFA	ACTURER NAME //STATE LOCATION See P-5A		WEAPON MODEL	/SERIES/POPULAR	NAME		
Code   Unit Cost   Total Cost					TOTAL COST	IN THOUSANDS	OF DOLLARS			
A A B 8,000 32 8,000 32 8,200	Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
A	350 GPM PUMP, DED	∢			12 333	6				9
A	FORWARD AREA REFUELING SYS, M640	∢				4			• • • • • • •	
A A BAGE TOTAL A FIGURING LIST FOR THE NOT 170 CO FIGURA SET 14,500 CO F	TANK ASSEMBLY, 10K GAL, M649	∢			8,000	32				
A A 14,250	2700 -> 0 400 X	<			2,000	55		u)		ш,
A A 14,250	ANN, ZON GAL, AZ 14	(			9,500	57		<b>ц</b> )		ш) 
A A 14,250	TANK, FABRIC, WATER, 3K GAL	∢			2 375	<b>ω</b> <u>τ</u>				
A A 10,250 82 10,375 83 10,500	TANK ASSEMBLY, 50K GAL, M120	∢				4	•			. 1_
K GAL  A  A  A  B  B  B  B  B  B  B  B  B  B	HYPOCHLORINATION UNIT, M155	∢			14,250	) C		28		
K GAL  K GAL  A  A  A  A  BAGE TOTAL  PAGE TOTAL  A  TIEM NO 127  BAGE TOTAL  A  TIEM NO 127  BAGE TOTAL  A  TIEM NO 127  BAGE TOTAL  A  TIEM NO 127  BAGE TOTAL  BAGE TOTAL  A  TIEM NO 127  BAGE TOTAL  BAGE TOT	WATER CHILLER, M157	∢			14,250	57		98		<b>L</b> O
K GAL  A  A  A  B  C  C  C  C  C  C  C  C  C  C  C  C		•			10,250	82				
K GAL  A  A  A  B  C  C  C  C  C  C  C  C  C  C  C  C	PUMP UNIT, 125 GPM	∢			1,667	_ 0				_
A A B B B B B B B B B B B B B B B B B B	TANK, FABRIC, COLL, 3K GAL	∢			3 000					
A	DRUM, 500 GAL, M126	∢				24				2
A PAGE TOTAL PAGE NO 127 PAGE NO 3 0F 14 1500 3 1,500 150 1500 150 1500 1500 1500 1500	KIT. 350 GPM PUMP	∢			2,083	50		<u>ب</u>		S.
PAGE TOTAL         PAGE TOTAL         F.1 SHOPPING LIST         F.1 SHOPPING LIST         Page NO 3 OF 14         EXHIBIT P-5		<			1,500			•		
Page of Page ITEM NO 127 PAGE NO 3 OF 14 EXHIBIT P-5	KII, PP PACILIIES	(			857	12				
UNCLASSIFIED EXHIBIT P-5	PAGE TOTAL					515		522		525
UNCLASSIFIED PAGE NO 3 OF 14				-1 SHOPPING LIS					Page	
			ITEM NO 127		PAGE NO 3 OF	14	ONCIA	SSIFIED	EXHIB	IT P-5

(EPORTS CONTROL SYMBOL				UNCLASSIFIED					
)D-COMP(AR) 1092		WEAPON SI	WEAPON SYSTEM COST ANALYSIS EXHIBIT	NALYSIS EXH	HBIT			DATE February 1995	7995
VPPROPRIATION /BUDGET ACTIVITY  Other Procurement: Army 3  Other Support Equipment					P-1 ITEM NOMENCLATURE FORCE	ICLATURE FORCE PROVIDER	DER		6661
		MANUE PLANT CITY	MANUFACTURER NAME INT CITY/STATE LOCATION See P-5A	2	WEAPON MODEL	WEAPON MODEL/SERIES/POPULAR NAME	NAME		(MBUZUU)
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
KIT, 20K GAL TANK W-W	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
KIT, 125 GPM PUMP W-W	∢			4,000		4,000	7 88	4,000	. 8 2
KIT, ACCESSORY W-W	۷			6,500	13	6,500	13	6,500	13
KIT, WATER	∢			5,000	<del>-</del>	5,000	10	5,000	10
KIT, 50K GAL TANK	∢			24,000	4	24,500	49	24,500	49
KIT, F.P. FACILITIES	∢			6,500	13	6,500	13	6,500	13
KIT, F.P. FACILITIES	∢			2,313	37	2,313	37	2,375	38
KIT, LAUNDRY	∢			875	14	875	14	875	14
KIT, AUX 350 PUMP	∢			1,500	8 8	1,500	2 3	1,500	3
KIT, LARGE NOZZLE	∢			3,500		3,500	7	3,500	7
KIT, SMALL NOZZLE	∢			1,000	& &	1,000	∞ ∞	1,000	∞ ∞
KIT, TANK INLET	∢			2,750	22	2,750	22	2,750	22
LAUNDRY UNIT, TRAILER MTD, M876	∢			2,000		2,000	4 4	2,000	144
				42,000	168	42,500	170	43,000	172
PAGE TOTAL					355		358		361
		ď.	P.1 SHOPPING LIST					Page	of Pages
		ITEM NO 127		4GE NO 4 OF 14	14	UNCLASSIFIED	SIFIED	EXI	r P.5
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Page   Page	PORTS CONTROL SYMBOL									
PAGE TOTAL	D-COMP(AB) 1092		WEAPON SY	STEM COST A	NALYSIS EXH	IIBIT			DATE Februar	y 1995
em Cost Elements	PPROPRIATION /BUDGET ACTIVITY ) ther Procurement: Army 3					P.1 ITEM NOMEN	CLATURE FORCE PROVII	DER		(M80200)
Elements   Dight   FY 94   Duantity   FY 95   Dua	יוופן סתלסטן באמיליים ואיניים		MANUFA	ACTURER NAME //STATE LOCATIO See P-5A		WEAPON MODEL	/SERIES/POPULAR	1 NAME		
Elements   Debt   FY 94   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   Quantity   FY 95   TOTAL COST   TOTAL C					TOTAL COST	IN THOUSANDS	OF DOLLARS			
The color of the	Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	FY 95 UNIT COST	Quantity TOTAL COST	FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
PAGE TOTAL   A	GENERATOR SETS, 60KW/60HZ	A			18,400		18,600			
PAGE TOTAL  A  PAGE TOTAL  A  A  A  BAGE TOTAL  A  A  A  10,000  BAGE TOTAL  A  BAGE NO 120  140  200  140  35,000  140  36,000  141  36,000  144  36,250  2,806  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000  4,01  10,000	TRAILERS, AN/MJQ-41/PU-805	∢			7.000		7,100			50 360
TAND  AP	FLOODLIGHT SET, TRAILER MTD	∢			10.000		10,100			20
EMS  EMS  TITION OF THE TOTAL  A 10,000 144 36,250 142 36,000 144 36,250 10,000 40 10,250 10,	LATRINE	∢			35,000		35.500			
EMS  EMS  FMS  THEM NO 127  PAGE TOTAL  A 10,000  A 10,0	SHOWER	∢			35,000		36,000			
PAGE TOTAL  PAGE TOTAL  PAGE TOTAL  PAGE TO TAL  PAGE TO	SHAVE STAND	∢			10 000					
PAGE TOTAL  PAGE TOTAL  PAGE TOTAL  PAGE NO 127 PAGE NO 5 OF 14  EXHIBIT P-5  EXHIBIT P-5  EXHIBIT P-5  EXHIBIT P-5  EXHIBIT P-5						Ċ				
## 4,319 4,619  P-1 SHOPPING LIST  UNCLASSIFIED  EXHIBIT P-5  EXHIBIT P-5	SECONDARY ITEMS		·			7707		2017		
TEM NO 127 PAGE NO 5 OF 14 EXHIBIT P-5						<u>-</u> -				
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P-1 SHOPPING LIST UNCLASSIFIED PAGE NO 5 OF 14 EXHIBIT P-5	PAGE TO	)TAL				4,319		4,618	6	4,670
PAGE NO 5 OF 14				P-1 SHOPPING LIK	ST				Page	of Pages
			ITEM NO 127				ONCLA	ASSIFIED.	EXHIE	BIT P-5

Common Co				UNCLASSIFIED					
COMP(AR) 1092		WEAPON SY	STEM COST /	WEAPON SYSTEM COST ANALYSIS EXHIBIT	IBIT			DATE February 1995	v 1995
PPROPRIATION /BUDGET ACTIVITY ther Procurement: Army 3 ther Support Equipment					P.1 ITEM NOMENCLATURE FORCE I	CLATURE FORCE PROVIDER	DER		TO COMP
		MANUF PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A	Z	WEAPON MODEL	WEAPON MODEL/SERIES/POPULAR NAME	NAME		000000000000000000000000000000000000000
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 NIT COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
NGINEERING SERVICES GOVERNMENT CONTRACTOR					499		424 258		400 211
DEPOT ASSEMBLY MODULE ASSEMBLY PU-805 ASSEMBLY, M509 AN/MJQ-41 ASSEMMBLY, M511					984 302 481		1,514 432 529	•	1,644 450 544
ESTING COSTS							275		50
ROVISIONING AND TECHNICAL MANUALS							310		200
UALITY ASSURANCE							91		97
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									******
PAGE TOTAL					2,515		3,833		3,596
TOTAL				5,332,000	10,664	6,137,500	12,275	6,063,500	12,127
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		ITEM NO 127		AGE NO 8 OF 14	4	STATE OF THE PROPERTY OF THE P	oirieD	EX	r P-5

	2			UNCLASSIFIED	_					
D-COMP(AR) 1092			BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	PLANNING	EXHIBIT			DATE February 1995	lary 1995	•
PPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	UDGET ACTIVITY BRT: Army 3			P.1 ITEM NO FO	P-1 ITEM NOMENCLATURE FORCE PROVIDER	H.				
Other Support Equipment	quipment									(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
SOST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		FIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
FY95	DPSC, Phila., PA	Redn	TEMPER TENT, TYPE I/DLA	NOTE 1		9	24,667			
	DPSC, Phila., PA	Redu	TEMPER TENT, TYPE IV/DLA	NOTE 1		102	11,725			
	DPSC, Phila., PA	Redn	TEMPER TENT, TYPE VII/DLA	NOTE 1		8	3,250			
	DPSC, Phila., PA	Redu	TEMPER TENT, TYPE VIII/DLA	NOTE 1		2	29,500			
	DPSC, Phila., PA	Requ	TEMPER TENT, TYPE XV/DLA	NOTE 1		18	16,722			
	TBS	C/FP	AIR CONDITIONERS/ATCOM	FEB 95		128	4,250			
	Fed. Prison Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	NOTE 2		72	5,569			
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	NOTE 2		80	000'9			
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	NOTE 2		09	2,250			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 95		4	9,750			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 95		4	5,750		•	
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 95		4	10,000			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	AUG 95		9	12,333	•		
	TBS	C/FP	FOWARD AREA REFUEL SYS/ATCOM	FEB 95		4	8,000			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	AUG 95		8	2,000	•		
	TBS	C/FP	TANK, 20K GAL/ATCOM	AUG 95		9	9,500			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 95		8	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	AUG 95		4	14,250			
	185	C/FP	HYPOCHLORINATION UNIT/ATCOM	AUG 95		4	14,250			
	TBS	C/FP	WATER CHILLER/ATCOM	JUL 95		∞	10,250			
	TBS	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 95		9	1,667			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	JUN 95		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	MAY 95		24	2,083			:
REMARKS	Committee Hospital	o Ciorro Army	Danot Hodon			,	,			

NOTE 1: Awarded Nov 94.

NOTE 2: Awarded Dec 94.

Page of Pages	INCLASSIFIED	EXHIBIT P-5A	
P1 SHOPPING LIST	UNCLA	PAGE NO 7 OF 14	
		ITEM NO 127	

EPORTS CONTROL SYMBOL	SYMBOL		, .	UNCLASSIFIED						
D-COMPIARI 1092			BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	PLANNING	EXHIBIT			DATE February 1995	1995 Jary	
ther Procurement: Army 3 ther Support Equipment	obser Activity ant: Army 3 quipment			P-1 ITEM NOI FO	P-1 ITEM NOMENCLATURE FORCE PROVIDER	65				
										(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
OST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NON	REQ'D	AVAILABLE
FY 95	183	C/FP	KIT, 350 GPM PUMP/ATCOM	MAR 95		2	1,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		14	857			
	IBS	C/FP	KIT, 20K GAL TANK/ATCOM	MAR 95		2	4.000			
	<b>TBS</b>	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	MAR 95		2	6,500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	MAR 95		7	5.000	-		
	TBS	C/FP	KIT, WATER/ATCOM	MAR 95		2	24,000			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	MAR 95		1 8	6.500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	2,313	1.0		
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	MAR 95		16	875			
	TBS	C/FP	KIT, LAUNDRY/ATCOM	MAR 95		2	1.500			
	S8-	C/FP	KIT, AUX 350 PUMP/ATCOM	MAR 95		2	3,500		·	
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	MAR 95		8	1.000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	MAR 95		8	2,750		-	
	TBS	C/FP	KIT, TANK INLET/ATCOM	MAR 95		2	2,000			
	188	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	30 NOC		4	42,000			
	188	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 95		20	18,400			
	SBL	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	JUN 95		20	2,000			
	188	C/FP	FLOODLIGHT SET/ATCOM	FEB 95		20	10,000			
	TBS	MIPR	LATRINE/AIR FORCE	JAN 95		4	35.000			
	TBS	MIPR	SHOWER/AIRFORCE	JAN 95		4	35,500			
	188	MIPR	SHAVE STAND/AIR FORCE	JAN 95		4	10,000			
							-			
EMARKS										

OTHER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

Page of Pages	-	EXHIBIT P-5A	
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P1 SHOPPING LIST		ITEM NO 127	

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(EPORTS CONTROL SYMBOL	SYMBOL		BUDGET PROCUBEMENT HISTORY AND PLANNING EXHIBIT	PI ANNING I	TXHIRIT			DATE Estructus 1995	1005	
C. MOIT AIRCOGGG	STORES TOOL							חשוב בפחור	Jary 1990	
Other Procurement: Army 3	ont: Army 3			P-1 ITEM NOI	P-1 ITEM NOMENCLATURE FORCE PROVIDER	<b>E</b>				
)ther Support Equipment	quipment									(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
OST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		- NO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MON	REQ'D	AVAILABLE
FY96	TBS	Reqn	TEMPER TENT, TYPE I/DLA	NOV 95		4	25,000			
	TBS	Redn	TEMPER TENT, TYPE IV/DLA	NOV 95		102	11,853			
	TBS	Redn	TEMPER TENT, TYPE VII/DLA	NOV 95		8	3,250			
	TBS	Redn	TEMPER TENT, TYPE VIII/DLA	NOV 95		2	30,000			
	TBS	Redn	TEMPER TENT, TYPE XV/DLA	NOV 95		18	17,000			
	TBS	C/FP	AIR CONDITIONERS/ATCOM	NOV 95		128	4,297			
	Fed. Prison, Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 95		72	5,625			
	Fed. Prison, Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 95		80	6,125			
	Fed. Prison, Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 95		9	2,267			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 96		4	9,750		•	
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 96		4	5,750			
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 96		4	10,000			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 96		9	12,500			
	TBS	C/FP	FOWARD AREA REFUEL SYS/ATCOM	FEB 96		4	8,000			
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 96		80	7,125			
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 96		9	9,667			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 96		80	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 96		4	14,500			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 96		4	14,500			
	188	C/FP	WATER CHILLER/ATCOM	FEB 96		8	10,375			
	188	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 96		9	1,667			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 96		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	FEB 96		24	2,125			
EMARKS										

Page of Pages		FXHIRIT P.5A
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P1 SHOPPING LIST		27 PAGE NO 9 OF 14
		ITEM NO 127

PORTS CONTROL SYMBOL	SYMBOL			UNCLASSIFIED						
D-COMPIARI 1092	2		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIRIT	PI ANNING	EXHIBIT			DATE CAL	1006	
PPROPRIATION /B	PPROPRIATION /BUDGET ACTIVITY				LAINDII			UAIE February 1995	Jary 1995	
ther Procurement: Army 3	ent: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE	ţ				
ther Support Equipment	quipment			2	rokce PROVIDER	Ľ				
										(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES.
OST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	- 1	DATE	DELIVERY	QUANTITY	COST	MON	REO'D	AVAII ABI F
FY 96	TBS	C/FP	KIT, 350 GPM PUMP/ATCOM	NOV 95		2	1.500			
	88	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		14	857			
	TBS	C/FP	KIT, 20K GAL TANK/ATCOM	NOV 95		2	4.000			
	TBS	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	NOV 95		1 6	6,500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 95		2	5.000			
	TBS	C/FP	KIT, WATER/ATCOM	NOV 95		10	24.500			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	NOV 95		2 2	6,500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	2,313		·	
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 95		16	875			
	TBS	C/FP	KIT, LAUNDRY/ATCOM	NOV 95		2	1,500			
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 95		2	3,500			
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	NOV 95		· co	1,000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	NOV 95		80	2,750			
	TBS	C/FP	KIT, TANK INLET/ATCOM	NOV 95		2	2.000	-		
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	FEB 96		4	42.500			
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 96		20	18,600		•	
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	NOV 95		20	7 100			
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 96	-	200	10,1			
	TBS	MIPR	LATRINE/AIR FORCE	NOV 95	-	4	35.500			
	TBS	MIPR	SHOWER/AIRFORCE	NOV 95		4	36.000			
	TBS	MIPR	SHAVE STAND/AIR FORCE	NOV 95		4	10,000			
FMARKS										
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THER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

	P1 SHOPPING LIST		Part Day	
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ITEM NO 127	PAGE NO 10 OF 14		EXHIBIT P-5A	

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EPORTS CONTROL SYMBOL	SYMBOL		,							
D-COMP(AR) 1092			BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	PLANNING	EXHIBIT			DATE February 1995	lary 1995	
PPROPRIATION /BUDGET ACTIVITY (1) ther Procurement: Army 3 (1) ther Support Equipment	JDGET ACTIVITY int: Army 3			P-1 ITEM NOI FO	P-1 ITEM NOMENCLATURE FORCE PROVIDER	65				
a modelno louix										(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
OST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
FY97	TBS	Regn	TEMPER TENT, TYPE I/DLA	96 VON		4	25,250			
	TBS	Redn	TEMPER TENT, TYPE IV/DLA	96 VON		102	11,990			
	TBS	Redn	TEMPER TENT, TYPE VII/DLA	96 \ON		80	3,375			
	TBS	Redn	TEMPER TENT, TYPE VIII/DLA	96 \ON		2	30,000			
	TBS	Redn	TEMPER TENT, TYPE XV/DLA	96 VON		18	17,000			•
	TBS	C/FP	AIR CONDITIONERS/ATCOM	96 VON		128	4,344	-		
	Fed. Prison Ind.	SS/FP	R454, DISE 100 AMP/ATCOM	DEC 96		72	5,694			-
	Fed. Prison Ind.	SS/FP	R453, DISE 40 AMP/ATCOM	DEC 96		8	6,125			
	Fed. Prison Ind.	SS/FP	R628, DISE UTILITY KIT/ATCOM	DEC 96		09	2,300			
	TBS	C/FP	FIELD KITCHEN/ATCOM	FEB 97		4	10,000			
	TBS	C/FP	REFRIGERATOR, MECH, MTD/ATCOM	FEB 97		4	9,000		,	
	TBS	C/FP	REFRIGERATOR, PANEL/ATCOM	FEB 97		4	10,250			
	TBS	C/FP	350 GPM PUMP, DED/ATCOM	FEB 97		9	12,667			
	TBS	C/FP	FOWARD AREA REFUEL SYS/ATCOM	FEB 97		4	8,250		,	
	TBS	C/FP	TANK ASSY, 10K GAL/ATCOM	FEB 97		80	7,125			
	TBS	C/FP	TANK, 20K GAL/ATCOM	FEB 97		9	9,667			
	TBS	C/FP	TANK, FAB, WATER, 3K GAL/ATCOM	FEB 97		80	2,375			
	TBS	C/FP	TANK ASSY, 50K GAL/ATCOM	FEB 97		4	14,500			
	TBS	C/FP	HYPOCHLORINATION UNIT/ATCOM	FEB 97		4	14,500			
	TBS	C/FP	WATER CHILLER/ATCOM	FEB 97		80	10,500			
	188	C/FP	PUMP UNIT, 125 GPM/ATCOM	FEB 97		9	1,667			
	TBS	C/FP	TANK, FAB, COLL, 3K GAL/ATCOM	FEB 97		2	3,000			
	TBS	C/FP	DRUM, 500 GAL/ATCOM	FEB 97		24	2,125			
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P1 SHOPPING LIST		PAGE NO 11 OF 14	
		ITEM NO 127	

PORTS CONTROL SYMBOL	SYMBOL			UNCLASSIFIED						
0-COMP(AR) 1092	2		BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	PLANNING	EXHIBIT			DATE February 1005	100E	
PPROPRIATION /BUDGET ACTIVIT ther Procurement: Army 3 ther Support Equipment	PPROPRIATION /BUDGET ACTIVITY (ther Procurement: Army 3 (ther Support Equipment			P-1 ITEM NO FO	P-1 ITEM NOMENCLATURE FORCE PROVIDER	ER			661	
										(M80200)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES.
OST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NON.	REO'D	AVAII ARI F
18 A	S	C/FP	KIT, 350 GPM PUMP/ATCOM	96 VON		2	1.500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	96 VON		14	857			
	188	C/FP	KIT, 20K GAL TANK/ATCOM	96 VON		2	4.000			
	188	C/FP	KIT, 125 GPM PUMP W-W/ATCOM	96 VON		2	6.500			
	TBS	C/FP	KIT, ACCESSORY W-W/ATCOM	NOV 96		2	5.000			
	TBS	C/FP	KIT, WATER/ATCOM	96 VON		1 8	24.500			
	TBS	C/FP	KIT, 50K GAL TANK/ATCOM	96 VON		· ~	6.500			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		18	2.375			
	TBS	C/FP	KIT, F.P. FACILITIES/ATCOM	NOV 96		16	875	,		
	TBS	C/FP	KIT, LAUNDRY/ATCOM	96 VON		2	1,500			
	TBS	C/FP	KIT, AUX 350 PUMP/ATCOM	NOV 96		2	3,500		•	
	TBS	C/FP	KIT, LARGE NOZZLE/ATCOM	96 VON		· œ	1,000			
	TBS	C/FP	KIT, SMALL NOZZLE/ATCOM	96 VON		80	2.750			
	TBS	C/FP	KIT, TANK INLET/ATCOM	96 VON		2	2.000			
	TBS	C/FP	LAUNDRY UNIT, TRLR MTD/ATCOM	FEB 97		4	43.000			
	TBS	C/FP	GENERATORS, 60KW/60HZ/ATCOM	FEB 97		50	18 820			
	TBS	OTHER 1	TRAILERS (P/P AND P/U)/TACOM	96 VON		200	7,200			
	TBS	C/FP	FLOODLIGHT SET/ATCOM	FEB 97		200	10 200			•
	TBS	MIPR	LATRINE/AIR FORCE	NOV 96		4	35 750	-		
	TBS	MIPR	SHOWER/AIRFORCE	96 VON		4	36.250			
	TBS	MIPR	SHAVE STAND/AIR FORCE	96 VON		4	10.250			
						•				
							•			
EMAKKS	•									

)THER 1: Items to be procured by TACOM by direction of Procurement Work Directive from ATCOM.

Page of Pages		EXHIBIT P-5A	
	UNCLASSIFIED		
P1 SHOPPING LIST		ITEM NO 127 PAGE NO 12 OF 14	

	SEF E SEF R A A A A A A A A A A A A A A A A A A	4	SEP	<u> </u>			-		
	JUL AUG		JUL AUG	This is a depot assembly program at	Jerra Army Depot, Herlong, CA. 1-8-5 represents annual production			Pages	
ary 1995	MAY UNI		R MAY JUN	ot assembl	Depot, Heri ants annual			Page of	
DATE February 1995	JAN FEB MAR APR		FEB MAR APR	his is a dep	oleria Army Depot, Herlong, CA. 1-8-5 represents annual producti	rates.			
		2	DEC JAN		, -				
	HISCAL YEAR 97		OCT NOV		TOTAL	1 0CT	26	IINCI A SCIEIED	LASSIFIED
<b>E</b>	JUL AUG SEP		JUL AUG SEP OCT D TIME		MANUFACTURING		25		Š
TURE FORCE PROVIDER	NOT		WAR APRIMAY JUN JUL AU PRODUCTION LEAD TIME	<u>u</u>	Τ.		-	-	
P.1 ITEM NOMENCLATURE	FEB MAR APR MAY		PRODUCTION LEA	ADMIN (FAD TIME	doida				
P.1 ITEM NO	CALEND		NAN	¥	8	-	INITIAL		
n LE	FISCAL YEAR 96  SEP OCT NOV DEC  A		SEP TOCI NOV DEC	MONTHS TO REACH MAX	D DAY		# 000	1	PAGE NO 13 OF 14
SCHEDULE	P. C. C. C. C. C. C. C. C. C. C. C. C. C.	1 1	AUG SEP 10	MONT	-			P-1 SHOPPING LIST	ON 10 NO
<u> </u>	אווו אווי אווי אווי אווי אווי אווי אווי		PRODUCTION	RATES	1-8-5 MAX			- I-d	
UNCLASS	R APR MAY		PRODL	RA	MIN 1-				ITEM NO 127
	JAN FEB MAR APR MAY		JAIN FEB MAN						
	1 VEAR 96 94 NOV DEC		oci I wai I nec I ne						
	BAL FISCA DUE AS OF 1 OCT OCT 2 2 2	9	3	NAME				73	
CTIVITY IMP 3	A CCEP TO TO 1			MANUFACTURER'S NAME & LOCATION	Sierra Army Denot Harlong CA	9		DD Form 2445, Jul 87	
UD-COMPLAR 1092 APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	υ/M EA  1			MANUFA	rmy Denot			DD Form	; ; ;
REPORTS CONTROL DD.COMPLAR 1092 APPROPRIATION /BU Other Procureme Other Support E	ν π π > <b>4 4 4</b> 20 9 9 5 7 8 9 9 5 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	TOTALS			Tra A				

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			UAIE FEBRUARY 1995						APR MAY JUN JUL AUG						_								•													1	ALL MAY JUN JUL AUG				THE 16 & GEFOL SESSIMBLY PROGRAM AT	Sierra Army Depot, Herlong, CA.	1-8-5 represents approach production						Page of Pages		<b>EXHIBIT P-21</b>	
-			UATE FE			EAR 00		T	IV DEC JAN FEB MAR APR MAY JUN																											CONTRACTOR OF STREET	200	REMARKS				Sierra Arm	1-8-5 repre			·						
						FISCAL YEAR 00			SEP OCT NOV					_										_		 _		 				 _				SEP OCT NOV						TOTAL	AFTER		30.	26				UNCLASSIFIED		
				OVIDER					JUN JUL AUG S			· .																								AUA IUL		יבאה וושב				MANUFACTURING	TIME			25				5		
			C A THOS	FORCE PROVIDER			g		FEB MAR APR MAY						_						_						_	 		_					_	FEB MAR APR MAY JUN	PRODUCTION LEAD TIME	100000		ADMIN LEAD TIME	T		AFTER	1 OCT								
			P.1 ITEM MOMENCY A THOS				CALENDAR VEAR 99	TELEVISION TEAM	JAN FEB MA						_		_													_		 				JAN FEB MA				ADMIN			PRIOR	1 001	$\dagger$		_					_
		<b>3</b>				FISCAL YEAR 99			OCT NOV DEC			~	_		_	_		_		_						 				_	_				2	DEC			- 01	AAX	>**	3	_			INIIAL	REORDER	1		**	10 10	•
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	UNCLASSIFIED	PRODUCTION						NIII V	_																				_				1			APR MAY JUN JUL A	PRODUCTION	TEE	MAIES	-	1.8.5 MAX	+	2			 		P-1		76	,,	
		PRODL					EAR 98	JAN FEB MAR APR MAY	AM ALM							_	_												_				  -			MAR APR MAY	PRODI		2		NEW T	t	7							ITEM NO 127		
						86	CALENDAR YEAR 98				2														_								+		 	JAN FEB																
				٠		FISCAL YEAR		OCT NOV DEC	-		2				_				_		_											 			_	OCT NOV DEC																
			>	_			OR DUE	CT 1 0CT	۲,	2				_												 						 _	 	•				FR'S NAME		TON			, CA						Jul 87			
	SYMBOL	~	PPROPRIATION /BUDGET ACTIVITY	Other Procurement: Army 3 Other Support Equipment			PRIOR TO TO	QTY 1 OCT	t	2																						 						MANUFACTURER'S NAME		& LOCATION		Page C	Sieria Aliny Depot, Heriong, CA						DD Form 2445, Jul 87			
	EPORTS CONTROL SYMBOL	D-COMP(AR) 1092	ROPRIATION /B:	)ther Procurement: Arm) )ther Support Equipment		ر د	5	<u>}</u>	٤	_	96 ¥	A 97					_		_		-	_				 		 		_			-	TOTALS	2012			¥				Jerra Armir I	Auto Pilot						8			
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LOGINOS STOCKED				3				
DD-COMP(AR) 1092		BUDGET ITI	EM JUSTIFIC	BUDGET ITEM JUSTIFICATION SHEET	F		DATE February 1995	ıry 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment		-		REFRIGERA	REFRIGERATION EQUIPMENT	MENT		
								(MA5800)
	FY 94	FY 95	PY 96	FY 97	FY 98	FY 99	FY 00	FY01
QUANTITY								
COST (IN MILLIONS)		2.2	2.6	5.5			0.2	0.2

electric motor driven (EMD), and diesel engine driven (DED) units and the 8' X 8' X 20' refrigerated container. These units are designed to fit into the 150 DESCRIPTION: This budget line represents Army tactical refrigeration equipment. It consists of refrigeration units including the 5,000 and 10,000 BTU cu ft pre-formed refrigerated box, and the 600, 1200, 1800, and 4,000 cu ft pre-fabricated refrigeration boxes. This equipment is used to store a variety of perishable items including food, drugs, medical supplies, and temperature sensitive equipment such as batteries and photographic film.

directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone JUSTIFICATION: The FY 96 / 97 programs are required to finish meeting the conditions set forth in the environmental laws, acts, agreements and depleting chemical.

Page of Pages		EXHIBIT P-40	
	UNCLASSIFIED		
P-1 SHOPPING LIST		PAGE NO 1 OF 19	
		ITEM NO 128	
DD Form 2454, Jul 88			

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	>	EAPON SYS	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE February 1005	1005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT	NCLATURE TION EQUIP	MENT		dly 1880
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME REFRIGERATION EQUIPMENT RO	L/SERIES/POP	WEAPON MODEL/SERIES/POPULAR NAME REFRIGERATION EQUIPMENT ROLL LINE		
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST I FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97	Quantity
SSN M919, Refrigerated Container	٧				84 2,166				191
SSN M860, Refrigeration Unit, 5,000 BTU, DED	∢						97		
SSN M849, Refrigeration Unit, 10,000 BTU, DED	4						151	•	
SSN M858, Refrigeration Unit, 5,000 BTU, EMD	∢						65 372		
									**************************************
	<u> </u>								
TOTAL					2,166		2,562		5,469
		P-1	P-1 SHOPPING LIST			UNCLASSIFIED	SIFIED	Page	of Pages
		ITEM NO 128	128	AGE NO 2 OF	19			EX	r P-5

<u> </u>	SYMBO	
	REPORTS CONT	DD-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3 Other Support Equipment

## BUDGET ITEM JUSTIFICATION SHEET CLASSIFIED

DATE February 1995

REFRIGERATED CONTAINER 8' X 8' X 20'

P-1 ITEM NOMENCLATURE

(M91900)

**FY01** electric motor driven refrigeration unit powered by a self-contained GFE 10 KW Diesel Engine Driven (DED) Generator Set. This refrigerated container provides DESCRIPTION: This item is a Military Standard 20 foot Refrigerated Container equipped with a 9,000 BTU (Government Furnished Equipment (GFE)) per hour FY00 FY 99 FY 98 FY 97 5.5 FY 96 FY 95 2.2 FY 94 COST (IN MILLIONS) QUANTITY

JUSTIFICATION: The Refrigerated Container is an integral part of Perishable Subsistence Platoons (PSP). The FY95/97 programs replace a portion of the overaged containers currently used in the PSP.

controlled temperature storage for food (produce, dairy products, meats and liquids), medical supplies, drugs, and other temperature sensitive items such as

batteries and photographic film.

P-1 SHOPPING LIST

UNCLASSIFIED

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	\$	FAPON SY	WEAPON SYSTEM COST ANALYSIS		EXHIBIT			DATE Eshaiss: 4005	100
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT	NCLATURE TION EQUIF	MENT	בייים בייים	1893
		MANUF, PLANT CIT	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		
		SEE P5-A			REFRIGERA	TED CONTA	REFRIGERATED CONTAINER 8' X 8' X 20'	X 20.	(M91900)
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST I FY 95 UNIT COST	FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
Item Hardware	٧			24,690	84 2,074			27 466	191
Government Engineering					92				75
Documentation									2 6
First Article Testing								•	8
									80
						•			
							·		
				***					
TOTAL					2,166				7 0 0
		<b>.</b>	2-1 SHOPPING LIST	_				Page of	Pages
		ITEM NO 128	128	AGE NO 4 OF	19	UNCLASSIFIED	SIFIED	EXF	P.5
			)						

(M91900) DATE February 1995 REFRIGERATED CONTAINER 8'X 8'X 20' **BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT** P-1 ITEM NOMENCLATURE DD-COMP(AR) 1092
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment REPORTS CONTR

						_
F YES.	WHEN	AVAILABLE				am will
SPEC	REV	REQ'D	9	2		The FY 97 program will
SPECS	AVAILABLE	NOW	YES	YES		The FY
	TINO	COST	24,690	27,466		ted Containe
		QUANTITY	84	191		a current FY 93 contract for DEPMEDS Refrigerated Containers
DATE OF	FIRST	DELIVERY	Jul 95	Feb 98		act for DEPN
	AWARD	DATE	Apr 95	Feb 97		TY 93 contr
	CONTRACTED	ВҮ	ATCOM	ATCOM		tion clause, to a current F
CONTRACT	METHOD	& TYPE	C/FP-REQ3(1)	C/FP-Option	·	dded, via an op
	CONTRACTOR	AND LOCATION	SEA BOX INC, S. Kearny, N. J.	TBS		REMARKS The FY 95 program will be added, via an option clause, to
	COST ELEMENT/	FISCAL YEAR	FY 95	FY 97		REMARKS Th

contract for DEPIMED'S Refrigerated Containers. The FY 97 program will be a new buy using Invitation for Bid with an option.

**EXHIBIT P-5A** ō Page UNCLASSIFIED PAGE NO 5 OF 19 P1 SHOPPING LIST **ITEM NO 128** 

Colored Colo	PORT	REPORTS CONTROL SYMBOL	YMBOL					Š	UNCLASSIFIED	۵					!						
FISCAL YEAR   SS	COM	<sup>2</sup> (AR) 1092					PRO	DUCT			Ш						7440	11 14 14 14	7	L	
Ball	PROPF	RIATION /BUD	GET ACTIVI	ΙΤΥ								TEM NO	MENC: AT: 10	بِ			5	reprus	ary 189		
NOTE   BAL   FIGOR 104   See   CALENDAR YEAR   See   CALENDAR YE	her Pi	ocurement:	Army 3 ment								, Ma	REFRIGE	RATED	CONTAINE		8' X 20'				Motopo	Ś
151   151   152   152   152   153	σ i		ACCEP	BAL	FISCAL YEAR		93			FISC	AL YEAR		96		- 4	SCAL YEAR		'		OS (SIA)	
FY   OTY   OCT	n Œ	O/M EA	PRIOR	AS OF		CALENDA	IR YEAR		S.			N GACIAN	OVU	8							<u> </u>
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191   191   191   192	<del> </del>						A	OC AVE		= = = = = = = = = = = = = = = = = = =		JAN FEB M	AR APR	JUN JUL	SE SE	OT NOV	JAN FEB M	AR APR		JUL AUG SEP	A.
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191   191   191   192				\$			⋖														
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ALS 275 CI MOV DECI JAN FEB MAR APPR MAY JAN JAU, ALGI SEP OCT INOV DECI JAN FEB MAR APPR MAY JAN JAU, ALGI SEP OCT INOV DECI JAN FEB MAR APPR MAY JAN JAU, ALGI SEP OCT INOV DECI JAN FEB MAR APPR MAY JAN JAU, ALGI SEP OCT INOV DECI JAN FEB MAR APPR DAY JAN SEP OCT INOV DECI JAN FEB MAR APPR DAY AFTER D DAY APPR DAY AFTER D DAY APPR D DAY AFTER D DAY APPR D DAY																					
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ALS   275	_																				
ALS 275 OCT NOV DEC JAN FEB MAR APP. MAY JUN JUL AUG SEP OCT NOV PEG JAN FEB MAR APP. MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APP. MAY JUN JUL AUG SEP OCT NOV PRODUCTION LEAD TIME  ### ALOCATION  ### 1-8-5 MAX AFTER DOAY  ### 1-8-5 MAX AFTER DOAY  ### 1-8-5 MAX AFTER DOAY  ### 1-8-5 MAX AFTER DOAY  ### 1-9-1 MANUFACTURING TOTAL  #### 1-9-1 MANUFACTURING TOTAL  #### 1-9-1 MANUFACTURING TOTAL  #### 1-9-1 MANUFACTURING TOTAL  #### APPLIES NAME																					
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ALS   275   COT   MOV/ DEG   AN   FEB   MAR APPR   MAY   JUL   JUL   ALG   SEP   COT   NOV   DEG   AN   FEB   MAR APPR   MAY   JUL   JUL   ALG   SEP   COT   NOV   DEG   AN   FEB   MAR APPR   MAY   JUL   ALG   SEP   COT   NOV   DEG   AN   FEB   MAR APPR   MAY   JUL   ALG   SEP   COT   NOV   DEG   AN   FEB   MAR APPR   MAY   JUL   ALG   SEP   COT   NOV   DEG   AN   FEB   MAR APPR   MAY   JUL   ALG   SEP   COT   NOV   DEG   AN   TER   DATE   APPR																					
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ALS   275							_		_				_								
ALS   275   OCT   NOW   DEG   JAN   FEB   MARY ALM   JUL   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ALM   JUL   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ARTHER   MAY ALM   JUL   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ARTHER   DAY   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ARTHER   DAY   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ARTHER   DAY   AUG   SEP   OCT   NOW   DEG   JAN   FEB   MARY ARTHER   DAY   AUG   SEP   OCT   NOW   DEG   JAN   SER   DAGE   NOW   DEG   JAN   SEP   DEG							_											_			
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ABOX INC., S. KEARNY, N. J.   20	_						_		_			_							****	_	
ALS    275	_								_												
ALS   275					_						_	_									
ABNUFACTURERS NAME																					
SCATION   COT   MOVIDEG   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEG   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEG   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEG   JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   APR   APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   APR   APR   MAY   JUL   AUG   SEP   OCT   MOV   APR   APR   MAY   JUL   AUG   SEP   OCT   MOV   APR   AP	1			1																	
OCT   NOV  DEG  JAN  FEB   MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT   NOV  DEG  JAN  FEB   MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT   NOV  DEG  JAN  FEB   MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT   NOV  DEG  JAN  FEB   MAR  AFTER DED TIME   TIME   AFTER	6	\LS		275												  -			1	$\downarrow$	+
MANUFACTURERS NAME					TOTAL	JANI CED	200	3					+	1	$\downarrow$						19
MANUFACTURERS NAME				4	20 100 100 100 100 100 100 100 100 100 1	1 3711 1 20	אלא	MAT JUN	JULIANG			AN FEB M	AR APR MAY	Y JUN JUL AU	<u>al SEP  Q</u>	T NOV DEC	JAN FEB MA	RAPRIMAY	NOTE:	A IC	Q
MANUFACTURERS NAME							<u>a</u> .	RODUCTIC	N.C			0	ואטודטו אטינ	CAD TIME							
REACH MAX   AFTER D DAY   REACH MAX   AFTER D DAY   ADMIN LEAD TIME   AFTER   TIME   AFTER		MANITEA	GTUTO	CHANG										רבאם וואב		# #	MRKS: FY 95	program is t	o be adde	d via optior	n claus
BOX INC., S. KEARNY, N. J.   20 50 75 5   PRIOR AFTER   ADMINLEAD TIME   AFTER   TIME   TIME			2000					KAIES		MONTHS	<u>_</u>					- C	Current DEDME	De contract	Aumen	i demokrate	.9
BOX INC., S. KEARNY, N. J.         MIN         1-8-5         MAX         AFTER D DAY         ADMIN LEAD TIME         TOTAL           PRIOR         AFTER         TIME         AFTER         AFTER         AFTER         AFTER           1 OCT         1 OCT         1 OCT         1 OCT         1 OCT         1 OCT         1 OCT           1 Form 2445, JUL 87         Form 2445, JUL 87         PAGE NO. 8. DE         PAGE NO. 8. DE         A GENDER         A GENDER         A GENDER		>	& LOCATI	NO				_		DEACUM			4			<u> </u>		CO COLUMN			2
BOX INC., S. KEARNY, N. J.								_	_		 {	A CM	LEAD I'ME	<del></del>		dela	ved pending app.	roval of FA1	T expected	Mar 95.	
BOX INC., S. KEARNY, N. J.							Z	1-8-5		AFTER DI	)AY	_		MANIESTE				į		į	
Form 2445, JUL 87   Form	EA		KEARN	2			۶			_	T			-	_		r v program	Will be a new	v buy using	I FB with	
Form 2445, JUL 87   Form							3				n	PRIOR			_	_	n clause				
ITEM NO 128   PAGE NO A OF	2						20	20			LC.	100									
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P-1 SHOPPING LIST  Page  UNCLASSIFIED  UNCLASSIFIED	1										INITIA		4		13	17					
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ITEM NO 128 PAGE NO A DE	į		!						ביים	L SALLE	_						Pat		jo	Pages	
PAGE NO & OF	8	Form 2445, JUI	L 87													i				S C	
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REPORTS CON SYMBOL					
DD-COMP(AR) 1092		BUDGET ITE	EM JUSTIFIC	BUDGET ITEM JUSTIFICATION SHEET	<u> </u>
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE
Other Procurement: Army 3					
Other Support Equipment				REFRIGERATION UNIT	TION UNIT
		,			
	FY 94	FY 95	FY96	FY 97	FY 98
QUANTITY					

(M86000) FY01

TION UNIT, 5,000 BTU, DED

FY00

FY 99

0.2

0.2

DATE February 1995

DESCRIPTION: The Refrigeration Unit, 5,000 BTU Diesel Engine Driven (DED) is a self-contained package consisting of condenser and evaporator sections designed to fit into the wall opening of the 150 cubic foot pre-formed refrigerated boxes. The unit is self powered using an internal diesel fueled engine. This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film.

COST (IN MILLIONS)

JUSTIFICATION: The FY96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R-12 refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

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		ITEM NO 128
	DD Form 2454, Jul 88	

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	S	<b>TEAPON SYS</b>	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE February 1995	lary 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE REFRIGERATION EQU	P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT	MENT		
Other Support Equipment					. :				
		MANUF,	MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODI	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		
		SEE P5-A			REFRIGERA	REFRIGERATION UNIT, 5,000 BTU, DED	5,000 BTU, D	G)	( M86000 )
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST I	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Item Hardware	∢					8,278	803		
Government Engineering							30		
TOTAL							833		
		Ą.	P-1 SHOPPING LIST	31				Page	of Pages
		ITEM NO 128	128	AGE NO 9 OF	0F 19	UNCLASSIFIED	SIFIED	EX	. P.5

UN SSIFIED	YMBOL	1092 BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT DATE February 1995	P-1 ITEM NOMENCLATURE		nt Equipment
	REPORTS CONTI	<b>DD-COMP(AR) 1092</b>	APPROPRIATION /BUDGET ACTIVITY	Other Procurement: Army 3	Other Support Equipment

( M86000)	IF YES,	WHEN	AVAILABLE				
	SPEC	REV	REQ'D	ON	Q 2	<u>Q</u>	
	SPECS	AVAILABLE	NOW	YES	YES	YES	
		LNO	COST	8,278	8,278	8,278	
			QUANTITY	115	76	6	
	DATE OF	FIRST	DELIVERY	Apr 96	May 96	May 96	
		AWARD	DATE	Feb 94	Feb 94	Dec 95	
		CONTRACTED	ВУ	ATCOM	ATCOM	ATCOM	
	CONTRACT	METHOD	& TYPE	C/FP-REQ3(1)	C/FP-REQ3(1)	C/FP-REQ3(2)	······································
		CONTRACTOR	AND LOCATION	KECO INC, Florence, KY	KECO INC, Florence, KY	KECO INC, Florence, KY	
		COST ELEMENT/	FISCAL YEAR	FY 92	FY 93	FY 96	

REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M ( CSS-EQ ). Unit cost for FY 96 was extracted from ordering period of current contract.

UNCLASSIFIED PAGE NO 10 OF 19 P1 SHOPPING LIST **ITEM NO 128** 

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**EXHIBIT P-5A** 

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REPORTS CONTINUES YMBOL								
DD-COMP(AR) 1092		<b>BUDGET ITE</b>	EM JUSTIFIC	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	==		DATE February 1995	arv 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ENCLATURE			
Other Procurement: Army 3								
Other Support Equipment				REFRIGERA	REFRIGERATION UNIT, 10,000 BTU, DED	10,000 BTU,	DED	
								(M84900)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY01
QUANTITY			151					
COST (IN MILLIONS)			1.4	,				

DESCRIPTION: A self-contained, military specification unit consisting of a condenser and evaporation section, designed to fit into the wall opening of the 600, 1200, 1800, and 4000 cu ft pre-fabricated refrigerated boxes. This unit is self powered by a 12 volt, air cooled diesel engine with a refrigerant that will comply with EPA and DOD directive for replacement of chlorofluorocarbons (CFC) R12 in all refrigeration equipment. It provides temperature controlled storage for tems such as food, drugs and medical supplies, batteries and photographic film.

JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and directives of the United States and other World Communities to replace the R - 12 Refrigerant used in Refrigeration Equipment because it is an ozone depleting chemical.

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DD Form 2454, Jul 88		

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	S	/EAPON SY	STEM COST	WEAPON SYSTEM COST ANALYSIS EXHIBIT	XHIBIT			DATE Fabruary 1006	1005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE REFRIGERATION EQ	P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT	PMENT		1893 1893
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NOI	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	PULAR NAME		
		KECO, INC FLORENCE, KY	, KY		REFIGERAT	TION UNIT, 1	REFIGERATION UNIT, 10,000 BTU, DED	ЭЕО	( M84900 )
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	S OF DOLLARS FY 96	Quantity	FY 97	Quantity
	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Item Hardware	∢					8,642	151		
Government Engineering							52		
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									·
TOTAL							1,357		
		P.	P-1 SHOPPING LIST	ST				Page	of Pages
		ITEM NO	128	AGE NO 13 OF	OF 19	UNCLA	UNCLASSIFIED	Ĭ	T D.5
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REPORTS CONTR	YMBOL									
DD-COMP(AR) 1092	72	BUDGET	<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT</b>	ORY AND	PLANNING E	XHIBIT		DATE February 1995	<b>nary 199</b>	5
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	Equipment			REFRIGE	RATION UNIT	REFRIGERATION UNIT, 10,000 BTU, DED	, DED			( M84900 )
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		SNT TIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
FY 92	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	ဟ	8,642	YES	8	,
FY 93	KECO, INC FLORENCE, KY	C/FP-REQ3(1)	ATCOM	Feb 94	Mar 96	82	8,642	YES	0	
FY 96	KECO, INC FLORENCE, KY	C/FP-REQ3(2)	ATCOM	Dec 95	Mar 96	151	8,642	YES	9	
									•	
								·		
- 1045									, ,	

FY 92 / 93 programs were funded under Items Less Than \$2.0M (CSS-EQ). REMARKS: Pages

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**ITEM NO 128** 

P1 SHOPPING LIST

**EXHIBIT P-5A** 

(M84900) ш depleting substances and due to requirement for a complete from bidders. Procurement LT 31 mos. includes extensive AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP technical evaluation. Prior court ruling required ATCOM OCTINOVIDEC JANI FEBIMARIAMPI JUNI JULIAUCI SEPIOCTINOVIDECI JANI FEBIMARIAMPI JUNI JULIAUCI SEPIOCTINOVIDECI JANI FEBIMARIAMPI JUNI JULI AUCI SEPI to request and evaluate additional technical information equirement to update Mil Specs. to replace all ozone 31 First Article Test on new refrigerant and long leadtime Contract award was delayed due to Pages DATE February 1995 8 န္တ 8 8 8 100 CALENDAR YEAR Page 13 82 S, REMARKS: FISCAL YEAR < REFRIGERATION UNIT, 10,000 BTU, DED UNCLASSIFIED AFTER TOTAL 1001 8 MANUFACTURING 95 TIME Ŋ PRODUCTION LEAD TIME JAN FEB MAR APR MAY JUN P-1 ITEM NOMENCLATURE જ્ **ADMIN LEAD TIME** 2 PRIOR AFTER 1 OCT CALENDAR YEAR 1 OCT REORDER INITIAL 1 OCT OCT NOVIDED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOVIDED FISCAL YEAR PAGE NO 15 OF PRODUCTION SCHEDULE AFTER D DAY MONTHS TO REACH MAX P-1 SHOPPING LIST UNCLASSIFIED 8 ¥ 140 ITEM NO 128 **PRODUCTION** 1-8-5 RATES \$ 8 35 CALENDAR YEAR Z ⋖ ⋖ FISCAL YEAR 93 MANUFACTURERS NAME AS OF S 82 238 BAL DUE 2 & LOCATION KECO INC., FLORENCE, KY PPROPRIATION /BUDGET ACTIVITY 1 OCT ACCEP PRIOR Other Procurement: Army 3 2 EPORTS CONTROL SYMBOL ther Support Equipment DD Form 2445, JUL 87 S) 82 151 ₽ UMEA D-COMP(AR) 1092 TOTALS 굺 8 8 8 ш  $\alpha$ ⋖ ⋖ ⋖ F

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REPORTS CONTINUE SYMBOL							<b>,</b>	
DD-COMP(AR) 1092		<b>BUDGET ITE</b>	EM JUSTIFIC	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	H		DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment				REFRIGERA	REFRIGERATION UNIT, 5,000 BTU, EMD	5,000 BTU,	EMD	
								(M85800)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	6Y 00	FY 01
QUANTITY								

DESCRIPTION: This refrigeration unit is a self-contained package unit consisting of a condenser and evaporator sections designed to fit into the wall This refrigeration unit is required for the storage of temperature sensitive items such as food, drugs, medical supplies, batteries and photographic film. opening of the 150 cu ft pre-formed refrigerated boxes. This unit requires power from a military generator or local electrical power to operate.

COST (IN MILLIONS)

directives of the United States and other World Communities to replace the R - 12 refrigerant used in Refrigeration Equipment because it is an ozone JUSTIFICATION: The FY 96 program is required to finish meeting the conditions set forth in the environmental laws, acts, agreements and depleting chemical.

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REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092	3	EAPON SY	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE February 1995	1005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE REFRIGERATION EQUIPMENT	ENCLATURE TION EQUIF			
		MANUF	MANUFACTURER NAME		WEAPON MODE! /SFRIES/POPI II AB NAME	El /SERIES/POP	I AR NAME		
		PLANT CITY/STA KECO, INC FLORENCE. KY	PLANT CITY/STATE LOCATION ECO, INC.	NOI	REFRIGERA	TION UNIT,	REFRIGERATION UNIT, 5,000 BTU, EMD	JWD	(0087874)
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity	TOTAL COST   FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
Item Hardware	<					5 400		_i	
Engineering Government									
TOTAL							372		
	,	ď	P-1 SHOPPING LIST	31				Page	of Pages
		ITEM NO 128	128	AGE NO 17 OF	OF 19	UNCLASSIFIED	SSIFIED	ΉX	. p.5

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MBOL	)
DRTS CONTR	CMP/AR) 1092

## BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT P-1 ITEM NOMENCLATURE

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REFRIGERATION UNIT, 5,000 BTU, EMD

DATE February 1995

D-COMP(AR) 1092

APPROPRIATION /BUDGET ACTIVITY

Other Procurement: Army 3

Other Support Equipment

IF YES,	WHEN	AVAILABLE									
SPEC	REV	REQ'D	Q Z	9	<u>Q</u>						
SPECS	AVAILABLE	NOW	YES	YES	YES						
	TINO	COST	5,376	5,376	5,400						
		QUANTITY	80	က	65						
DATE OF	FIRST	DELIVERY	Apr 96	Apr 96	Apr 96						
	AWARD	DATE	Feb 94	Feb 94	Dec 95						
	CONTRACTED	ВУ	ATCOM	ATCOM	ATCOM						
CONTRACT	METHOD	& TYPE	C/FR-REQ3(1)	C /FP-REQ3(1)	C/FP-REQ3(2)	-					
	CONTRACTOR	AND LOCATION	KECO INC FLORENCE, KY	KECO INC FLORENCE, KY	KECO INC FLORENCE, KY						
	COST ELEMENT/	FISCAL YEAR	FY 92	FY 93	FY 96						
	DATE OF SPECS SPEC	CONTRACTOR METHOD CONTRACTED AWARD FIRST UNIT AVAILABLE REV	CONTRACT CONTRACTED AWARD FIRST CONT AVAILABLE REV AND LOCATION & TYPE BY DATE DELIVERY QUANTITY COST NOW REQ'D AN	CONTRACT CONTRACTED CONTRACTED AWARD FIRST OUNIT AVAILABLE REV AND LOCATION & TYPE BY DATE DELIVERY QUANTITY COST NOW REQ'D FLORENCE, KY  NOW Feb 94 Apr 96 Apr 97 Apr 96 Apr 97	CONTRACTOR METHOD CONTRACTED AWARD FIRST OLIVERY QUANTITY COST NOW REQ'D FLORENCE, KY  KECO INC C/FR-REQ3(1)  KECO INC C/FR-REQ3(1)  KECO INC C/FR-REQ3(1)  KECO INC C/FR-REQ3(1)  ATCOM Feb 94 Apr 96 Apr 96 Apr 96 Apr 96 Apr 96 YES NO FLORENCE, KY  KECO INC C/FP-REQ3(1)  ATCOM Feb 94 Apr 96 Apr 96 Apr 96 YES NO FLORENCE, KY	CONTRACTOR         METHOD         CONTRACTED         AWARD         FIRST         UNIT         AVAILABLE         REQ.           AND LOCATION         & TYPE         BY         DATE         DELIVERY         QUANTITY         COST         NOW         REQ.D           KECO INC         C/FP-REQ3(1)         ATCOM         Feb 94         Apr 96         8         5,376         YES         NO           KECO INC         C/FP-REQ3(2)         ATCOM         Feb 94         Apr 96         3         5,376         YES         NO           KECO INC         C/FP-REQ3(2)         ATCOM         Dec 95         Apr 96         5,400         YES         NO	CONTRACT AND LOCATION         CONTRACT BY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY AND ELIVERY ELIVERACION         DATE DELIVERY ADJANTITY COST NOW REQUIRED         SPECS NO ELIVERY ELIVERY AND ELIVERY AND ELIVERY ELIVERY ELIVERY ELIVERY ELIVERY         CIFP-REQUIRE ELIVERY ELIVERY ELIVERY AND ELIVERY E	CONTRACT         CONTRACT         AWARD         FIRST         UNIT         AVAILABLE         REVD           AND LOCATION         & TYPE         BY         DATE         DELIVERY         QUANTITY         COST         NOW         REQD           KECO INC         C/FR-REQ3(1)         ATCOM         Feb 94         Apr 96         8         5,376         YES         NO           KECO INC         C/FP-REQ3(1)         ATCOM         Feb 94         Apr 96         3         5,376         YES         NO           KECO INC         C/FP-REQ3(2)         ATCOM         Dec 95         Apr 96         655         5,400         YES         NO	CONTRACTOR         CONTRACT         CONTRACTED         AWARD         FIRST         UNIT         AVAILABLE         SPECS           AND LOCATION         & TYPE         BY         DATE         DELIVERY         QUANTITY         COST         NOW         REQ'D           KECO INC         C/FP-REQ3(1)         ATCOM         Feb 94         Apr 96         8         5,376         YES         NO           KECO INC         C/FP-REQ3(2)         ATCOM         Feb 94         Apr 96         3         5,376         YES         NO           KECO INC         KFCO INC         C/FP-REQ3(2)         ATCOM         Dec 95         Apr 96         655         5,400         YES         NO	CONTRACTOR METHOD         CONTRACTED BY         DATE OF FIRST DELIVERY         DATE OF FIRST DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DATE DELIVERY         DELIVERY         DATE DELIVERY <th< td=""><td>CONTRACTOR         CONTRACTOR         CONTRACTOR         AWARD BY         FIRST</td></th<>	CONTRACTOR         CONTRACTOR         CONTRACTOR         AWARD BY         FIRST

REMARKS: FY 92 / 93 programs were funded under Items Less Than \$2.0M ( CSS-EQ ).

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REPORTS	REPORTS CONTROL SYMBOL	SYMBOL					ONCI	UNCLASSIFIED													_
DD-COMP(AR) 1092	(AR) 1092					PROL	PRODUCTION	N SC	HEDULE	щ											
APPROPR	APPROPRIATION /BUDGET ACTIVITY	<b>GET ACTIV</b>	ΊΤΥ					1								DATE	DATE February 1995	995			
Other Pro	Other Procurement: Army 3	Army 3		•						<u>.                                    </u>	F-1 IIEM NOMENCLATURE	ENCLATUR	m								
Other Su	Other Support Equipment	oment .								<u>~</u>	EFRIGERA	TION UNI	REFRIGERATION UNIT, 5,000 BTU, EMD	, EMD							
ဟ		ACCEP	BAL	FISCAL YEAR			2							-					(M	(M85800)	
ш	U/M EA	PRIOR	DUE				<b>1</b>		FISCA	FISCAL YEAR		95		FISCA	FISCAL YEAR		8			<	
			AS OF	93	CALENDAR YEAR	R YEAR		8		8	CAI ENDAR VEAD	٥			-					<b>-</b>	
>	FY	1 OCT	1 OCT	OCT NOV DEC JAN FEB MAR APR MAY ILIN	AN FEB	MAR APR		-	SED OCT MONDED			<u> </u>		-	<u>র</u>	CALENDAR YEAR	AR.	86	_	ш	
	92 8							3	130		JAN FEB MAR APR MAY JUN	R APR MA		JUL AUG SEP OCT NOVIDEC JAN FEB MAR APR MAY	OVIDEC JAP	N FEB MAR	APR MAY	JUN JUL	AUG SEP	2	
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						PR	PRODUCTION					PRODUCTION I EAD TIME	PRODUCTION I EAR TIME	SET COLI INC	V DEC JAN	FEB MAR	APR MAY	JUN JUL	AUG SEP	T	
	MANUFA	MANUFACTURERS NAME	S NAME				RATES		MONTHS TO					-	REMARKS:	5: Contra	Contract award was delayed due to	as delayed	due to		
<b>∀</b>	∞	& LOCATION	NC		1		-								requiremen	requirement to update Mil Specs, to replace all ozone	Ail Specs. to	o replace a	il ozone		
ပ						2	a r		AND TOTAL		ADMIN	ADMIN LEAD TIME			depleting s.	depleting substances and due to requirement for a complete	nd due to re	equirement	for a compl	lete	
1 KECO I	KECO INC. FLORENCE KY	PENCE KO			$\dagger$	36	L	_	AF IER D DAY	<u></u>			MANUFACTURING	IG TOTAL	technical e	technical evaluation. Prior court ruling required ATCOM	ior court ru	ling require	A ATCOM		
					$\dagger$	S	8	6	9		PRIOR	AFTER	TIME	AFTER		to request and evaluate additional technical information	additional	technical in	formation	***	
					$\dagger$	$\frac{1}{ }$	+				1 OCT	1 OCT		100	from bidder	from bidders Procinement   T 32 mm inchi	ont 1 1 32				
					1		+	1		INITIAL		2		27	Z Eiget Adials		בוון רו אל ו	nos. Incida	es extensiv	<u>.                                    </u>	
								_		REORDER	-	6				A rucke lest on new reingerant and long leadtime	/ refrigerant	and long I	eadtime		
2	DD Form 2445 1111 07	î					ď	1 SHOPF	P-1 SHOPPING LIST	1					o componets.	D <sub>2</sub> CG	'	'		T	
	, or	ē (											_	UNCLASSIFIED	<u>.</u>	3	5	rages	<u>sa</u>		
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REPORTS CONTROL SYMBOL		UNCLASSIFIED	SIFIED					
DD-COMP(AR) 1092	BUDGET	ITEM JU	UDGET ITEM JUSTIFICATION SHEET	UHU NOI	-		L	
APPROPRIATION /BUDGET ACTIVITY							DAIE repruary 1995	ry 1995
Other Procurement: Army 3				THE MINIMENCLATURE	NCLAIURE	T. 1441 4		
Other Support Equipment					II EIMO LESS	HEMS LESS I HAIN \$2.0M (CSS-EU)	(CSS-EQ)	
								(MI 5325.)
	FY 94	FY 95	FV 96	FV 97	EV QB	EV 90	20.25	1000
QUANTITY					00 1	66 11	00 11	10 11
COST (IN MILLIONS)	2.8	44	2.2	2.8	2.2	2.4	000	
			212	2:0	7:7	<b>2.</b> *	6.3	y.4

acquisitions made with these funds are designated to support vital high priority requirements for combat service equipment. The types of items procured on this budget line include heaters, non-breathable air compressors, aerial delivery equipment, and food sanitation equipment. These DESCRIPTION: This program covers combat support equipment which has individual procurements less than \$2 million annually. All types of systems and equipment support the combat readiness and quality of life of every soldier in the Army, every day.

JUSTIFICATION: These programs fill critical field user shortages and replace overaged, non-supportable and non-reparable assets. This type of requirements for combat support equipment. The FY 96/97 programs support primarily acquisition of the Food Sanitation Center and the equipment is subject to high wash out rates due to its extensive, daily use and low unit price. Consequently, this equipment becomes uneconomical reparable sooner than more expensive end items. This budget lines provides the flexibility to meet critical, "short fuse" Containerized Shower System. The Food Sanitation Center programs are in direct support of Army Field Feeding - Future.

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	PAGE NO 1 OF R
P-1 SHOPPING LIST	. ITEM NO 129
	DD Form 2454, Jul 88

REPORTS CONTROL SYMBOL				UNCI ASSIFIED					
DD-COMPIARI 1092		WEAPON S	SYSTEM COST ANALYSIS EXHIBIT	ANAI VSIS EXI	HBIT				. !
APPROPRIATION /BUDGET ACTIVITY			200	MINAL I DID EX	TIBIT			DATE February 1995	гу 1995
Other Procurement: Army 3 Other Support Equipment					P.1 ITEM NOMENCLATURE ITEMS	ICLATURE ITEMS LESS	LATURE ITEMS LESS THAN \$2.0M (CSS-EQ)	(CSS-EQ)	
									(ML5325)
		MANUF PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	ž	WEAPON MODEL/SERIES/POPULAR NAME	/SERIES/POPULA	R NAME		
COST (IN MILLIONS)									
Weanon System Cost Elements			•	TOTAL COSI	TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
	CODE	FY 94	Quantity TOTAL COST	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity
M005, Compressor, 5 cfm	4		100	I COO I III	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
				2.286	240				
M095, Compressor, 5 cfm	∢				167				
M196, Army Space Heater	<		128	1,455	243		-		
M2004 Documents		5,234	670			-			
w.c.o.t, boat initiatable	∢	19	13		175	-			
M359, Outboard Motor	∢	9,154	119	8,714	1,525			•	
M665 Food Sanitation Conta		2,000	204						
wood, tood same and Center	∢				16		134		64
M721, Light Set, Trailer Mounted	<			12,875	206	13,157	1,763	13,484	863
M824 Consisonismo	,		139	12,840	1,926				
moza, comanienzeu snower system	∢						23	,	75
M824, Portable Bath Units	∢		80			19,957	459	19,907	1,493
M919, Refrigerated Container: Engineering	∢	20,000	1,600						
M941, Truck, Firefighting, Structure	∢		20						C
R174, Survey Set, Target	∢				149			220,000	440
No SSN, Relocatable Building	•			1,403	209				
M866, Mobile Kitchen Trailer	∢			170,000	170				
• Funds reprogrammed from Arms Control Compliance				17,800	68				
TOTAL			2,782		4,608	- ,	2 222		2 706
		P.1	P.1 SHOPPING LIST				7,455	Page of	١
ITEM NO 129	129		PAGE N	2	OF 5	UNCLASSIFIED	SIFIED	Even	L.
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APPRC	APPROPRIATION /BUDGET ACTIVITY			1	202	P-1 ITEM NOMENCI ATURE	LATURE	DAIC FEDIUS	31V 1995	
Othe Othe	Other Procurement: Army 3 Other Support Fauinment						ITEMS LESS T	ITEMS LESS THAN \$2.0M (CSS-EQ)	CSS-EQ)	
								FY 95		(ML5325)
COST				ASSETS ON HAND BY FDP			TOTAL			
NO NO	NOMENCLATURE	AA0	ASSETS ON-HAND	(INCLUDES	TSOS	QUANTITY	DOLLARS	CONTRACT	CONTRACT	AWARD
					1600	REGUINED	(IHOUSANDS)	TYPE	METHOD	DATE
- (	M005, Compressor, 5 cfm	4,451	3,630	3,735	2,286	105	240	FP	U	Jun-95
7	M095, Compressor, 5 cfm	7,784	6,720	6,887	1,455	167	243	Œ	ပ	Jun-95
ລ ∠	MARK Food Conjuntion Control	384	160	335	8,714	175	1,525	<b>G</b>	ပ	Aug-95
ן נכ	M721 Light Set Trailer Mounted	2,148	804 404	0/8	12,875	16	206	£	ပ	Jul-95
9 6	R174. Survey Set Target	3,647	2,484	2,634	12,840	150	1,926	<del>T</del> 1	U ·	Mar-95
, ~	No SSN Relocatable Building	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	D 5	738	1,403	149	209	<b>.</b>	ပ	Jul-95
· «	MARK Mobile Kitchen Trailer	A/M	A/N	- 100	000,071		170	<del>.</del>	ပ	. Feh-95
<b>-</b>	Moore with the property of the	4,802	4,280	4,285	17,800	ى س	68	FP/OPT	ပ	Mar-96
·	Award of the Mobile Kitchen Trailer funds will occur after completion of First Article Test (FAT). Initial contract to award March 95.									
•						· <del>····</del>				
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	TOTAL						000			
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TEMS EASY HAN \$ 2.0M (CSS-EQ)   CONTRACT EQUIPMENT   CONTRACT	APPR	OPRIATION /BUDGET ACTIVITY		1		2000	P. 1 TEAN ACCOUNT.	101	DAIE FEBR	lary 1995		T
ModelCature	Otre C	r Procurement: Army 3					L' I LEM NOME	ACLATORE				
Modelecature	Othe	r Support Equipment						II EMS LESS	HAN \$2.0N FY 96	M (CSS-EQ)		
M665. Food Sanitation Center  2.148  M824, Containerized Shower System  2.148  307  10.004 мит  2.148  307  10.004  13.157  13.457  1459  FP  CONTRACT  M824, Containerized Shower System  TOTAL  TOTAL  FP					ASSETS						(ML5325)	7
M665, Food Sanitation Center	1905		<del></del>		ON HAND							
M665, Food Sanitation Center   2.148					BY FDP			TOTAL				
M655 Food Sanitation Center  2,148 870 1,004 13,157 134 1,763 FP C  M824, Cornalmerized Shower System  487 284 307 19,957 23 4,59 FP C  TOTAL  TOTAL  TOTAL  REWIND 129 PAGE NO. 1,004 13,157 134 1,763 FP C  19,957 23 4,59 FP C  19,957 23 4,59 FP C  2,282 4,59 FP C  2,282 1,769 FP C  19,957 23 1,769 FP C  2,282 1,769 FP C  19,957 23 1,769 FP C  2,282 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 23 1,769 FP C  19,957 24 1	N E		AAO	ASSETS	(INCLUDES	UNIT	QUANTITY	DOLLARS	CONTRACT	CONTRACT	AWARD	
M824, Containerized Shower System 2.148 870 1,004 13.157 134 1,763 FP C M824, Containerized Shower System 487 284 307 19.957 23 4.59 FP C TOTAL TOTAL	•			↓_	(AID ADS	COST	REQUIRED	(THOUSANDS)	TYPE	METHOD	DATE	_
TOTAL  TOTAL  P-1 SHOPPING LIST  NUCLASSFIED  EXHIBIT P.38  TOTAL  Page of Pages  EXHIBIT P.38	- 7	M824, Containerized Shower System	2,148		1,004	13,157	134	1,763	Ð (	U (	Feb-96	
P-1 SHOPPING LIST  PAGE NO 4 OF 5  EXHIBIT P					3		73	t D	ł	ပ	Feb-96	
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00-00	DD-COMPI(AR) 1092	ITEMSL	LESS THAN		\$2MILLION DOLL	ARS		DATE Februsey 1995	1995	
APPR	APPROPRIATION /BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE	ICLATURE	משור ובחוח	ary 1335	
Othe Othe	Other Procurement: Army 3 Other Support Equipment						ITEMS LESS	ITEMS LESS THAN \$2.0M (CSS-EQ) FY 97	(CSS-EQ)	
										(ML5325)
COST				ASSETS ON HAND BY FDP			TOTAL			
N S	NOMENCLATURE	AAO	ASSETS ON-HAND	(INCLUDES	UNIT	QUANTITY	DOLLARS (THOUSANDS)	CONTRACT	CONTRACT	AWARD
٠ -	M665, Food Sanitation Center	2,148	1,004	1,068	13,484	64	863	FP	U	Feb-96
4 W	M941, Truck, Firefighting, Structure	188	307	382	19,907 220,000	75	1,493	<del>.</del>	ပပ	Feb-96 Jan-96
	TOTAL						2,796			
			P-1 SHOPPING LIST	i LIST		,		Page	of Pages	
	ITEM	ITEM NO 129	PAGE NO	2 0	OF 5	UNCLASSIFIED	SIFIED	Ш	EXHIBIT P.3B	

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DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	GET ITEM JUSTIFICATION SHEET	EET		DATE February 1995	ny 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3				LAB PETROLEUM MODULAR BASE	<b>OLEUM M</b> (	<b>DDULAR B</b>	ASE	
Other Support Equipment								
				,				(M68500)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		1	-					
COST (IN MILLIONS)		2.3	2.8					

**DESCRIPTION:** This mobile laboratory performs a wide range of petroleum product, oils and lubricant analysis including oil analysis, quality surveillance and acceptance testing. It provides theater commanders with a highly deployable, self sufficient base laboratory laboratory, semi-trailer mounted, containing additional test and administrative equipment. The laboratory is air transportable in a Ccapability. The laboratory consists of two modules. Module A is one laboratory, semi-trailer mounted. Module B is a second 130 or larger aircraft.

The FY 96 program acquires one A and two B modules. A complete laboratory will go to the 475th Petroleum Group and a Module B JUSTIFICATION: Currently, commanders can perform this type of petroleum testing and analysis only in a fixed installation facility. will go to the Quartermaster Center and School

		P-1 SHOPPING LIST	PING LIST			Page	of Pages	T
DD Form 2454, Jul 86	ITEM NO 130	PAGE NO	o Po	4	UNCLASSIFIED		EXHIBIT P-40	

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Other Support Equipment					P-1 ITEM NOMENCLATURE LAB PETROLEUM MO	P-1 ITEM NOMENCLATURE LAB PETROLEUM MODULAR BASE			Meano
		MANITEA	MANITE ACTIONS MANE						(MDS200)
		PLANT CITY	PLANT CITY/STATE LOCATION		WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		
			See P-5A			LAB BASE			
				TOTAL COST II	TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
Weapon System Cost Elements	IDENT		Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity
	2002	ONI COS	IOIAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Hardware	•				-	. !	-		
	≪			2,169,000	2,169	2,718,000	2,718		
Module A				1,620,000	(1,620)	1,620,000	(1) (1,620)		
Module B				249 000	(1)	549,000	(2)		
				20,0	(etc)	0149,000	(060'1)		
			**************************************						•
Government Engineering					26		89		
Documentation					77				
			-						
NOTE: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the				·			· <u>-</u>		
FY 96 program is for one A and two B modules.									
TOTAL				2,343,000	2,343	2,786,000	2,786		
P-1 St	P-1 SHOPPING LIST	GLIST						Page	90000
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e con						<b>3</b>			
To Joseph Company of the Company of				<del>-</del>		<b>P</b> : - : <b>4</b>		<b>þ</b>	

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DD-COMP(AR) 1092	32	BUDGE	BUDGET PROCUREMENT HIST	TORY AND	IENT HISTORY AND PLANNING EXHIBIT	EXHIBIT		DATE Febr	February 1905	
APPROPRIATION	APPROPRIATION /BUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE				lualy 133	
Other Procurement: Army 3 Other Support Equipment	nent: Army 3 Equipment			LAB PETR	OLEUM MOI	LAB PETROLEUM MODULAR BASE				
										(M68500)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
98	TBS	C/FP-REQ-2(1)	ATCOM	Jul 95	Jul 96	-	2,169,000	YES	Q Q	
						Module A 1 Module B 1	1,620,000 549,000	YES	<u> </u>	
96	TBS	C/FP-REQ-2(2)	ATCOM	Aug 96	Oct 96	4	2,718,000	YES	9	
						Module B 2	549,000	YES	0 0	
				,					`	
·										
									-	
							*****			
REMARKS. T	The lab consists of two modules: "A" and "D"	fuloc: "A" ond "E	The Constitution of T "C	V = 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						

REMARKS: The lab consists of two modules; "A" and "B". The Quartermaster School already has Module A and only requires Module B to complete their laboratory. For this reason, the FY 96 program is for one A and two B modules.

Page of Pages		EXHIBIT P-5A
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P1 SHOPPING LIST		PAGE NO 3 OF 4
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			(M68500)			A M	AUC.									AN COR MAD AND WAS A STATE OF THE STATE OF T	REMARKS: Award of the FY 96 program is based	on successful completion of the First Article Test						Decree	
	uany 1995				97	MAY II IN	NOC YES									200	the FY 96	on of the F						2	- Ho
	DATE February 1995				CALENDAR YEAR	JAN FEB MAR APR MAY IIIN										MAD ADD	Award of	ul completi	•					Page	
				۶ 97	CALEN											IAN FE	EMARKS:	saccessi	(FAT).					-	
		Ж		FISCAL YEAR		AUG SEP OCT NOV DEC			- 2	1	 					Ş		5	<u> </u>	TOTAL	AFTER	3 8	3 4	5	SIFIED
		LAB PETROLEUM MODULAR BASE							<b>«</b> «							AUG SEP O						13	j 6	, )	UNCLASSIFIED
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		_ <b></b>		FISCAL YEAR		NOV DEC J					 					W DEC JAN				ਜ		INITIAL	REORDER		0
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PR					CALENDAR YEAR	JAN FEB MAR APR MAY JUN					 		 			MAR APR	<u> </u>			MIN				P-1 SHOPPING LIST	ITEM NO 130
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				FISCAL YEAR	29 CM									+		OCT NOW DEC JAN FEB MAR APR MAY JUN JUL									
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REPORT DD-COM	APPROF	Other		л N m	<b>∀</b> υ		<	<b>∢</b>				 	 	 1	TOTALS		u	. <	<del>.</del> 0	1 TBS	-	1	$\downarrow$	٤	

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REPORTS CONTROL SYMBOL							
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APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ENCLATURE		
Other Procurement: Army 3				INLAND PE	INLAND PETROLEUM DISTRIBUTION SYS	STRIBUTION	SXS
Other Support Equipment							
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	#B - L	C617	0617	181	081	8811	
TITNALIC							

**FY01** 

FY00

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3.7

0.3

COST (IN MILLIONS)

QUANT

(MA5120)

TE February 1995

STEM (IPDS)

when deployed world wide. As Operational Projects Stocks (OPS), IPDS supports the United States Central Command (CENTCOM) as based forces in a theater of operations. The Inland Petroleum Distribution System (IPDS) provides bulk fuels support to military forces **DESCRIPTION:** The U. S. Army has the mission to provide bulk petroleum fuels distribution to all Department of Defense (DOD) land Petroleum Terminals (TPT), Mainline Pump Stations, and 6 inch pipeline. The system also includes facilities, software, training and well as other unified commands' world wide contingency plans when executed. The major components of IPDS are the Tactical planning documentation.

supporting ongoing IPDS requirements for the Army Strategic Mobility Plan, and other contingencies such as Somalia. All items in the FY 96/97 program, except the Bulk Fuel Tank Assembly (BFTA), are needed to meet established IPDS requirements. The BFTAs are being JUSTIFICATION: The FY 96/97 programs support the reconfiguration of the IPDS deployed to Southwest Asia (Desert Shield/Storm), procured based on the self life and corresponding wash out of the existing tanks. BFTAs are also the most likely components to be damaged during exercises such as the Joint Logistics Over The Shore (JLOTS) or deployment. The Critical Gap Crossings to be procured will be a new design that significantly reduces installation time as compared to the existing inventory.

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P-1 SHOPPING LIST		ITEM NO 131
	DD Form 2454, Jul 88	

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Army 3 ment stem Cost Elements IDENT cobe nment ambly A A A A A A	MANUFACTURER NAME					DATE February 1995	ary 1995
rstem Cost Elements IDENT FY 9 CODE UNIT COMBINS A A A A A A A A A A A A A A A A A A A	MANUFACTURER NAME		P-1 ITEM NOMENCLATURE INLAND PETROLEUM	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) (MA	STRIBUTION	SYSTEM (IPI	JS) (MA5120)
rstem Cost Elements IDENT CODE ID	PLANT CITY/STATE LOCATION See P-5A	N O	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		
embly	FY 94 Quantity UNIT COST TOTAL COST	TOTAL COST II FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	S OF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
par play	566		394		3		- 11
		28,457	94	28,444	512	28,417	12
		64,778	583				
				25,000	300		
				3,000	100	3,000	100
Refabricated Critical Gap Crossing						1,855	. 83 154
6 Inch Drains A					-	375	300
TOTAL	266	-	3,652		1,115		1,106
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ITEM NO 131	PAGE NO	2	OF 15			EXHIBIT P-5	TP-5

	UNC	
REPORTS CONTROL SYMBOL		
DD-COMP(AR) 1092	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	DATE February 1995
APPROPRIATION /BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
Other Procurement: Army 3	INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)	M (IPDS)
Other Support Equipment	BULK FUEL TANK ASSEMBLY	

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(MA5120)	IF YES,	WHEN	AVAILABLE									_	_
	SPEC	REV	REQ'D	9	8	9	8						
	SPECS	AVAILABLE	MOM	YES	YES	YES	YES						
		LINO	COST	26,148	28,457	28,444	28,417						
			QUANTITY	25	94	18	12	-					
	DATE OF	FIRST	DELIVERY	Nov 94	Sep 96	Jun 97	Aug 97						
		AWARD	DATE	Sep 93	Jul 95	Sep 96	Mar 97						
		CONTRACTED	ВУ	ATCOM	ATCOM	ATCOM	ATCOM						
	CONTRACT	METHOD	& TYPE	C/FP-Option	C/FP-REQ-5(1)	C/FP-REQ-5(2)	C/FP-REQ-5(3)						
		CONTRACTOR	AND LOCATION	Bell Avon, Picayune, MS C/FP-Option	TBS	TBS	TBS			,			
		COST ELEMENT/	FISCAL YEAR	FY93	FY95	FY96	FY97						REMARKS

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e de	Process	Other Procurement: Army 3	ال ال														<u> </u>	ANDP	ETRO	LEUM	DISTR	MBUT	NO SY	STEM	INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)							
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	95		IF YES, WHEN		
	bruary 19		SPEC REV	S ON	
	DATE February 1995	IPDS)	SPECS AVAILABLE	YES	
		N SYSTEM (	UNIT	64,778	·
	EXHIBIT	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) TOOL KIT PIPE CUTTING	YTITNETIC	6	
0	PLANNING	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DIS TOOL KIT PIPE CUTTING	DATE OF FIRST DELIVERY	Apr 96	
UNCLASSIFIED	<b>FORY AND</b>	P-1 ITEM NO INLAND P TOOL KIT	AWARD	May 95	
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT		CONTRACTED	ATCOM	
	BUDGET		CONTRACT METHOD & TYPE	C/FP	
JL SYMBOL		3UDGET ACTIVITY ent: Army 3 quipment	CONTRACTOR AND LOCATION	TBS	
REPORTS CONTROL SYMBOL	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	COST ELEMENT/ FISCAL YEAR	FY95	X X X X X X X X X X X X X X X X X X X

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**ITEM NO 131** 

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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING E	EXHIBIT		DATE February 1995	niary 199	<u>.</u>
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NC INLAND P	P-1 ITEM NOMENCLATURE INLAND PETROLEUM I	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)	N SYSTEM (I	PDS)	Se Ciant	
oniei Support Equipment	-daibinent			200 FOO1	200 FOOT TRUSS BRIDGE	DGE				(MA5120)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF FIRST		Į.	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
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APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3 Other Support Equipment	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NC INLAND P 20 FOOT	P-1 ITEM NOMENCLATURE INLAND PETROLEUM 20 FOOT FLAT RACK	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) 20 FOOT FLAT RACK	N SYSTEM (II	PDS)		
		TONTENCO			DATE OF			00100	0000	(MAS120)
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	SEC Z	WHEN
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FY96	TBS	C/FP-REQ-5(1)	ATCOM	Mar 96	Aug 96	100	3,000		YES	Aug 95
FY97	TBS	C/FP-REQ-5(2)	ATCOM	Feb 97	Mar 97	100	3,000	YES		
REMARKS										
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REPORTS CONTROL SYMBOL DD-COMPIAR) 1092	PRODUCTION SCHEE	EDULE		DATE February 1995	
APPROPRIATION /BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
Other Procurement: Army 3		INLAND PETROLEUM DIST	INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)		
Other Support Equipment		20 FT FLAT RACK		W)	(MA5120)
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										(MA5120)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
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Ş	Other Procurement: Army 3	: Army 3														Z	INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS)	PETR	tolel	Ω M	STRIE	3UTIO	N SY	STEM	(IPD	(S								
ŧ o	Other Support Equipment	pment														<u>~</u>	REFABRICATED CRITICAL GAP CROSSING	SICAT.	ED CF	ZITIC.	AL GA	P CR	OSSII	<u>S</u>								(MA5120)	120	
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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING	EXHIBIT		DATE February 1995	bruary 199	35
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3 Other Support Equipment	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NOMENCLATINLAND PETROLE SIX-INCH DRAINS	P-1 ITEM NOMENCLATURE INLAND PETROLEUM SIX-INCH DRAINS	P-1 ITEM NOMENCLATURE INLAND PETROLEUM DISTRIBUTION SYSTEM (IPDS) SIX-INCH DRAINS	N SYSTEM (I	IPDS)		
		CONTRACT			DATE OF			SPECS	SPEC	(MA5120) IF YES.
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAILABLE		WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
FY97	TBS	C/FP	ATCOM	Mar 97	Aug 97	800	375		YES	96 unf
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REPORTS CONTROL SYMBOL								<b>\</b>
DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	IDGET ITEM JUSTIFICATION SHEET	EET		DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			,
Other Procurement: Army 3				HEMTT AVIA	HEMTT AVIATION REFUELING SYSTEM	ELING SYST	EM	
Other Support Equipment								
								(R21900)
	FY94*	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	82	113	21					
COST (IN MILLIONS)	2.0	3.0	0.5					

DESCRIPTION: This system provides the Heavy Expanded Mobility Tactical Truck (HEMTT) Tanker the capability to refuel 4 aircraft simultaneously. consists of lightweight collapsible hose; closed circuit, open port and underwing (D-1 Type) nozzles; quick disconnect, sexless, dry-break couplings and wyses and tees.

refueling of aircraft during combat and peacetime operations. With HTARS the tanker can refuel four aircraft at a time rather than only one without it. The FY 96 JUSTIFICATION: The HEMTT Tanker Aviation Refueling System (HTARS) is urgently needed by all aviation units to provide faster and more efficient HTARS program is required to meet current shortages to the AAO.

FY94 Program was funded out of "Items Less Than \$2M POL Line".

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P-1 SHOPPING LIST

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ITEM NO 132

DD Form 2454, Jul 88

**EXHIBIT P-40** 

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REPORTS CONTROL SYMBOL	5		+000	1	!				·
ADDOCUMENT ON THE ACTIVITY	>	TEATON 919	STSTEM COST ANALTSIS EXHIBIT	ANAL YSIS E	XHIBITI			DATE Febru	February 1995
Other Procurement: Army 3					P-1 ITEM NOMENCLATURE HEMTT AVIATION REFUELING SYSTEM	NCLATURE VTION REFUI	ELING SYST	E E	
Carlos Cappost Equipment									(R21900)
		MANUFA PLANT CITY	MANUFACTURER NAME ANT CITY/STATE LOCATION	N.C	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		
			SEE P-5A	5		HTARS			
Weapon System Cost Elements	IDENT	FY 94* UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97	Quantity
HARDWARE	А	24,012	82 1,969*	26,009	113 2,939	26,000	21 546		
GOVERNMENT ENGINEERING					16				
PRODUCT ASSURANCE					ĸ				
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* FY94 Program was funded out of "Items Less Than \$2M POL Line".									
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TOTAL		24,012	1,969	26,425	2,965	26,000	546		
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DD-COMP(AR) 1092	BUDGET PROCUREMENT HISTORY AND PLAN
APPROPRIATION /BUDGET ACTIVITY	P-1 ITEM NOMENCE

HISTORY AND PLANNING EXHIBIT
P-1 ITEM NOMENCLATURE
HEMTT AVIATION REFUELING SYSTEM

DATE February 1995

Other Procurement: Army 3 Other Support Equipment	nent: Army 3 Equipment			HEMTT AV	/IATION REF	HEMTT AVIATION REFUELING SYSTEM	EM			
										(R21900)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
FY92	EASI, ST. LOUIS, MO	C/FP-OPTION	TROSCOM	Aug 92	Apr 94	320	23,791	YES	O <sub>N</sub>	
FY94	EASI, ST. LOUIS, MO	C/FP-OPTION	ATCOM	Apr 94	May 95	82	24,012	YES	8	
FY95	TBS	C/FP-REQ-2(1)	ATCOM	Jul 96	Apr 96	113	26,009	YES	0 N	•
FY96	TBS	C/FP-REQ-2(2)	ATCOM	Apr 96	Aug 96	21	26,009	YES	O <sub>N</sub>	
REMARKS										

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Other Support Edu	puncan							4				-					E	(R21900)
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DD-COMP(AR) 1092	BUDGET	ITEMJU	STIFICA	DGET ITEM JUSTIFICATION SHEET	EET		DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3				ITEMS LESS	ITEMS LESS THAN \$2.0M (POL)	1 (POL)		
Other Support Equipment								
								( ML5330 )
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	11.1	8.6	5.5	9.0	2.4	2.5	2.6	2.6

annual procurement programs of less than \$2 million. These programs support the Army's mission to provide bulk petroleum fuels **DESCRIPTION:** These programs include wide and diverse variety of Petroleum, Oil and Lubricants (POL) equipment which have distribution to all Department of Defense (DOD) land based forces in a theater of operations.

uneconomically reparable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets resulting in high washouts and losses. New technology improves combat capability and, as a result, reduces personnel requirements. JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and The FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.

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	Jul 88	ITEM NO 133
	DD Form 2454, Jul 88	

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REPORTS CONTROL SYMBOL IDD-COMP(AR) 1092	S	WEAPON SYS	SYSTEM COST ANAI VSIS	ANAI VSIS E	EXHIBIT				
APPROPRIATION /RUDGET ACTIVITY				1 200 1 1 200 1	Ambi I			DAIE FEDR	February 1995
Other Procurement: Army 3				u	TEMS LESS THEN \$2.0M (POL)	THEN \$2.00	M (POL)		
Carion Support Equipment									(ML5330)
		MANUFA PLANT CITY	NUFACTURER NAME CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME	:L/SERIES/POP	ULAR NAME		
				TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
Weapon System Cost Elements	IDENT	FY 94	Quantity	FY 95	Quantity	FY 96	Quantity	FY 97	Quantity
MEDS FILE SYSTEM SLIDBLY BOINT	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
MOOS, FOEL STOLEM SOFFLY POINT	∢	26,500	60 1,590	26,154	1,700	26,167	30 785	26,150	60 1,569
M666, TEST KIT, GROUND FUELS	∢	6,682	88 588						
M612, PUMP ASSEMBLY, REG, 350 GPM	∢		40	22,091	55 1,215	22,100	20	22.095	74
M638, PUMP ASSY, FLAMMABLE LIQ, 50 GPM	∢			3,622	119	3,620		3,620	308
M641, LUBE & SERVICE UNIT, TRAILER MTD	∢	29,000	25 725	29,600	60 1,776	29,604	1,421	29,610	41
M649, 10K POL TANK	۷	7,589	185						
M730, FUEL TEST KIT, AVIATION	∢	5,500	142	5,500	140	2,500	100	5,500	174
M939, FILTER SEPARATOR, 100 GPM	∢ .	1,545	132						
M908, HOSELINE OUTFIT	∢	68,684	19	-		000'69	11 759	000	18
M940, FILTER SEPARATOR, 350 GPM	∢	3,923	142	3,923	505 1,981	3,924	172	3,925	334
R384, 3K GAL POL TANK	∢				237	ě			
R219, HEMTT TANKER AVIATION REFUEL SYS	∢	24,110	1,977	3,114	738				
R214, TANK ASSEMBLY, FABRIC, COLLAPSIBLE, 20K	∢	2,511	458						
ENGINEERING SUPPORT			692						
TOTAL			11,050		8,611		5,537		9,043
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ITEM NO 133	133		PAGE	2	OF 5			EXHII	9
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REPO!	REPORTS CONTROL SYMBOL DD-COMP((AR) 1092	ITEMSL	ESS T	HAN \$2MI	2MILLION DOLLARS	OCLAR	S	DATE February 1995	uary 1995	
APPRO	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL)	A (POL) EV 06		· · · · · · · · · · · · · · · · · · ·
Other	Other Support Equipment							C6 1 J		(ML5330)
ITEM	NOMENCLATURE	AAO	ASSETS	ASSETS ON HAND BY FDP (INCLUDES	UNIT	QUANTITY	TOTAL	CONTRACT	CONTRACT	AWARD
오			ON-HAND	BUY QTY)	COST	REGUIRED	(THOUSANDS)	i	METHOD	DATE
_	M603, FUEL SYSTEM SUPPLY POINT	747	525	580	26,154	65	1,700	FP/REQ	ပ	-Jun-95
7	M612, PUMP ASSY 350 GPM	242	180	230	22,091	55	1,215	FP/REQ	ပ	Aug-95
ო	M638, PUMP ASSEMBLY, 50 GPM	1,338	800	890	3,622	119	431	FP/REQ	O	Jul-95
4	M641, LUBE-SERV UNIT	864	675	680	29,600	09	1,776	FP/REQ	O	Mar-95
2	M730, FUEL TEST KIT, AVIATION	729	617	675	5,500	140	770	FP/REQ	O	30-Inc
9	M940, FILT SEP, 350 GPM	1,999	1,855	1,955	3,923	202	1,981	FP/REQ	O	Jun-95
	R384, TANK POL 3000 GAL	266	300	260	3,114	237	738	FP/REQ	ပ	Jun-95
	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.									
	TOTAL PROGRAM						8,611			
<u></u>	P-1 SHOPPING LIST	IS FIST				ONO	UNCLASSIFIED	Page	of Pages	<b>X</b>
	ITEM NO	133	PAGE NO	3	OF 5			<u> </u>	EXHIBIT P-3B	

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	OBBIGATION MIDORT ACTIVITY		LESSIA	HANAZM	ILLION	*ZMILLION DOLLARS		DATE Feb	February 1995	
Othe Othe	APPROPRIATION/BUDGETACTIVITY Other Procurement: Army 3 Other Support Euipment					P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL) EV 06	A (POL)		
								<u> </u>		(ML5330)
ITEM	NOMENCLATURE	AAO	ASSETS	ASSETS ON HAND BY FDP (INCLUDES	UNIT	QUANTITY	TOTAL	CONTRACT	CONTRACT	AWARD
외			ON-HAND	BUY TY)	COST	REQUIRED	(THOUSANDS)	TYPE	METHOD	DATE
_	M603, FUEL SYSTEM SUPPLY POINT	747	580	009	26,167	30	785	FP/REQ	ပ	35,096
8	M612, PUMP ASSY 350 GPM	242	230	235	22,100	20	442	FP/REQ	ပ	35,125
ო	M638, PUMP ASSY, 50 GPM	1,338	890	1,100	3,620	250	905	FP/REQ	ပ	35,125
4	M641, LUBE-SERV UNIT	864	089	200	29,604	48	1,421	FP/REQ	ပ	35,096
သ	M730, FUEL TEST KIT, AVIATION	729	675	710	5,500	100	550	FP/REQ	υ	35,125
9	M908, HOSELINE OUTFIT	176	172	174	000'69	<del>-</del>	759	FP/REQ	ပ	35,125
_	M940, FILT SEP, 350 GPM	1,999	1,955	1,975	3,924	172	675	FP/REQ	ပ	35,125
	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.									
	TOTAL				, , , , , , , , , , , , , , , , , , ,	200	5 537			
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00-00	DD-COMP(AR) 1092	ITEMSL	LESSTH	THAN \$2MI	\$2MILLION	DOLLARS	Ø	DATE February 1995	ruary 1995	
APPR( Other	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3		·			P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (POL)	A (POL)		
Othe	Other Support Equipment							FY 97		(ML5330.)
				ASSETS ON HAND						
TEM	NOMENCLATURE	AAO	ASSETS ON-HAND	BY FUP (INCLUDES BUY QTY)	UNIT	QUANTITY	TOTAL DOLLARS (THOUSANDS)	CONTRACT	CONTRACT	AWARD DATE
	M603, FUEL SYSTEM SUPPLY POINT	747	009	650	26,150	09	1,569	FP/REQ	ပ	Feb-97
7	M612, PUMP ASSY 350 GPM	242	235	240	22,095	74	1,635	FP/REQ	ပ	Mar-97
<u>د</u>	M638, PUMP ASSY, 50 GPM	1,338	1,100	1,295	3,620	308	1,115	FP/REQ	ပ	Mar-97
₹	M641, LUBE-SERV UNIT	864	700	725	29,610	4	1,214	FP/REQ	ပ	Feb-97
\$	M730, FUEL TEST KIT, AVIATION	729	710	725	5,500	174	957	FP/REQ	ပ	Mar-97
6	M908, HOSELINE OUTFIT	176	174	176	000'69	48	1,242	FP/REQ	ပ	Mar-97
_	M940, FILT SEP, 350 GPM	1,999	1,975	1,995	3,925	334	1,311	FP/REQ	ပ	Mar-97
	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. This items are low unit cost and high usage, resulting in high washout rates.									
						•				
	TOTAL						9,043			
	P-1 SHOPPING LIST	IG LIST				UNCLA	UNCLASSIFIED	Page	of Pages	
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DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	BUDGET ITEM JUSTIFICATION SHEET	EET		DATE Febr
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE		
Other Procurement: Army 3				FWD AREA	<b>FWD AREA WTR POINT SUP SYSTEM</b>	<b>SUP SYSTE!</b>	5
Other Support Equipment							
	FY94	FY95	FY96	FY97	FY98	FY99	FY00
QUANTITY		155	148				

2.7

COST (IN MILLIONS)

(M18100)

February 1995

**FY01** 

(SOUTHCOM), combat support hospitals, and Operation Project Stocks (OPS). It consists of six 500 gallon water drums, a 125 gallons soldiers in their fields of operation. As the name states, FAWPSS provides life sustaining water to the most forward area of operation; hostile fire considerations. It was designed to be used at the company level, but is also part of the Arid Augmentation Water Teams in **DESCRIPTION:** The Forward Area Water Point Supply System (FAWPSS) supports the Army mission of providing potable water to divisions and below. The FAWPSS also supports the National Training Center, the Quartermaster School, the Southern Command front line and remote units in tactical environments where larger water distribution systems would be impractical due to terrain or per minute (gpm) water pump, suction and discharge hose assemblies, valves, nozzles, and hose connecting hardware.

Depot Operational Projects and on Prepositioned Vessels. Due to the extensive use of coated fabrics, FAWPSS has a short shelf life JUSTIFICATION: The FAWPSS programmed requirements are needed to improve the combat capabilities and increase operational readiness of the Army. The FY 96 program is required to replace losses due to field usage and long term storage as part of CONUS and an even shorter in-use life.

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DD-COMP(AR) 1092	۸	WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE FWD AREA WTR POII	NCLATURE WTR POINT	P-1 ITEM NOMENCLATURE FWD AREA WTR POINT SUP SYSTEM	M	2000
		MANUFA TLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION SEE D 64	NO	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		(M10100)
		กั	== F-5A			FAWPSS			
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 98 UNIT COST	Quantity	FY 97	Quantity
HARDWARE					155	Į.	148		
ENGINEERING				17,406	2,698	18,135	2,684		
DOCUMENTATION					4		4		
PRODUCT ASSURANCE					2		7		
TESTING					က				
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TOTAL				17,490	2,711	18,189	2,692		
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DD-COMP(AR) 1092	OL SYMBOL	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING E	EXHIBIT		DATE February 1995	ruary 199	2
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO FWD ARE	P-1 ITEM NOMENCLATURE FWD AREA WTR POIN	P-1 ITEM NOMENCLATURE FWD AREA WTR POINT SUP SYSTEM				
Thoddae Jamo	-dahinan									(M18100)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR AND LOCATION	METHOD & TYPE	CONTRACTED BY	AWARD DATE	FIRST DELIVERY	QUANTITY	COST	AVAILABLE NOW	REV REQ'D	WHEN
FY92	LABARGE PRODUCTS ST. LOUIS,MO	C/FP-REG-2(2)	TROSCOM	Mar 92	Mar 93	157	15,968		O <sub>Z</sub>	
FY95	<b>18</b> S	C/FP-REQ-3(1)	ATCOM	Jun 95	96 unc	155	17,408	YES	9	
FY96	TBS	C/FP-REQ-3(2)	ATCOM	Jun 96	Dec 98	148	18,135	YES	2	
REMARKS				·						
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APPROPRIATION (BLIDGET ACTIVITY	MET ACTIVITY					9	1001								DAIE	DATE reprusy 1995	CSS.			T
Other Procurement: Army 3	: Army 3							<u> </u>	FULLER NOMENCATORE FWD AREA WTR POINT SUP SYSTEM	V WTR	POINT	SOPS.	YSTEM							
Other Support Equipment	pment			·				-1					æ?∎	***				_	(M18100)	٤
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	5	AS OF 93		YEAR S	94				CALENDAR YEAR	R 95	2				CALENDAR YEAR	96 8				_ w
C V FY QTY	1 OCT	1 OCT OCT NOV DEC	DEC JAN FEB	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	AY JUN JI	UL AUG SI	EP OCT NO	V DEC JAN	V FEB MAR	APR MA	וע אטנ או	FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	P OCT N	ow DEC	JAN FEB MAR APR MAY	APR MAY	ş	JUL AUG	SEP.	œ
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TOTALS	157	303																30	8	208
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				PRO	PRODUCTION				PRC	PRODUCTION LEAD TIME	ILEAD TIN			REMARKS	KS					Г
	MANUFACTURERS NAME	VAME			RATES	Ī	MONTHS TO							<u>u</u>	FY96 program to be awarded June 96	n to be aw	varded J	<sup>1</sup> une 96		
∢ (	& LOCATION	_					REACH MAX		ADMIN	ADMIN LEAD TIME	Т				after FY95 program's First Article Test	gram's F	irst Artic	cle Test	_	
_					丄	4	AFTER D DAY					MANUFACTURING			is completed.					
	LOUIS, MO			2	8	\$	4		PRIOR	•		TIME	AFTER							
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CO-COMPLANT 1004			•			DALITEM MOMENTA TILDE	20114					T COLOGIA	200		T
Other Description of the 3						WD ARE	A WTR	FWD AREA WTR POINT SLIP SYSTEM	SYSTE	2					
College Flocal emerin.					•					Ę					
Other Support Equipment														M.	(M18100)
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UM EA PRIOR															-
A R TO AS	AS OF CALENDAR YEAR	R YEAR 97		}		CALENDAR YEAR	AR 98				CALENDAR YEAR	ŀ	66		w
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TOTALS 252	208 30 30 30 30	30 28													
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		PRODUCTION	CTION				PRODUCTION LEAD TIME	LEAD TIME		E.	REMARKS				
MANUF	NAME	RATES	ES	<b>§</b> ⊤	MONTHS TO					-					
A & LOCATION	~~	·			REACH MAX	ADMIN	ADMIN LEAD TIME								
		$\perp$		٠.	AFTER D DAY	- !		NAN-		TOTAL					
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DD-COMP(AR) 1092			72-1-0		- 5		ומאוב רפטים	diy 1883
APPROPRIATION /BUDGET ACTIVITY			<b>-</b>	P-1 ITEM NOMENCLATURE	ENCLATURE			
Other Procurement: Army 3				Small Mobile	Small Mobile Water Chiller (SMWC)	r (SMWC)		
Other Support Equipment								(M15700)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		185	387					
COST (IN MILLIONS)		1.9	4.0		-			

water from 120 degrees Fahrenheit to 60 degrees Fahrenheit in a 24 hour operation. Beginning with the FY 95 procurement, all SMWCs will utilize approved Rdiesel engine, compressor, condenser, heat exchanger (evaporator) and water pump. The components are skid mounted. The SMWC will cool 800 gallons of DESCRIPTION: The Small Mobile Water Chiller (SMWC) is a self-contained, vapor-cycle, single pass water chiller. The main components consist of a 134a refrigerant.

(CENTCOM) in harsh and arid environments. Programmed requirements are needed to maintain the operational readiness of the U.S. Army forces and for the JUSTIFICATION: The SMWC is part of the near term water supply equipment which is designed to provide cool fresh water to the U.S. Central Command replacement of assets lost during Desert Storm, Somalia, and Rwanda, and will ensure the viability of the Army's water supply capabilities for the future.

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DD-COMP(AR) 1092	3	EAPON SY	STEM COST	WEAPON SYSTEM COST ANALYSIS FXHIBIT	XHIRIT			DATE Cobs	1004
APPROPRIATION /BUDGET ACTIVITY					P-1 ITEM NOMENC! AT! IRE	-NC! AT! IRE		DATE February 1895	uary 1895
Other Procurement: Army 3 Other Support Equipment					SMALL MOE	SILE WATER	SMALL MOBILE WATER CHILLER (SMWC)	MWC)	
Carlo Cappor Equipment	-								(M15700)
		MANUFA	MANUFACTURER NAME	N.C.	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		
		SEE P-5A	P-5A	<u> </u>		CHILLER			
Weanon System Cost Floments	1	20 20		TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
	CODE	UNIT COST	TOTAL COST	UNIT COST	Quantity TOTAL COST	LY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
HARDWARE	٧			10,200	P .	l			
ENGINEERING			•						
DOCUMENTATION					7		_		
TESTING			-		-		*		
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TOTAL				10,232	1,893	10,214	3,953		-
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PEPORTS CONTRACTOR  DD-COMP(AR) 1092  APPROPRIATION /BUDGET ACTIVITY  Other Procurement: Army 3  Other Support Equipment  CONTRACTOR  FISCAL YEAR  AND LOCATION  FY90  AIRTACS CORP  RED LION, PA	BUDGET								
TOR		BUDGET PROCUREMENT HIST	ORY AND	MENT HISTORY AND PLANNING EXHIBIT	XHIBIT		DATE February 1995	ruary 199	so.
TRACTOR LOCATION S CORP N, PA			P-1 ITEM NO Small Mob	P-1 ITEM NOMENCLATURE Small Mobile Water Chiller (SMWC)	ler (SMWC)				
ON NO									(M15700)
CONTRACTOR AND LOCATION AIRTACS CORP RED LION, PA	CONTRACT			DATE OF			SPECS	SPEC	IF YES,
AND LOCATION VIRTACS CORP RED LION, PA	METHOD	CONTRACTED	AWARD	FIRST		LINO	AVAILABLE	REV	WHEN
INTACS CORP RED LION, PA	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
	C/FP	TROSCOM	Jan 91	Sep 91	248	6,700	YES	8	
TBS	C/FP-REQ-5(1)	ATCOM	Sep 95	May 96	185	10,200	O <sub>N</sub>	YES	Mar 95
TBS	C/FP-REQ-5(2)	ATCOM	Jun 96	Sep 96	387	10,199	9	YES	Mar 95

#### REMARKS

FY95 projected increase in unit price and fourth quarter award are a result of extensive changes to the SMWC to satisfy pollution control requirements.

P1 SHOPPING LIST UNCLASSIFIED ITEM NO 135 PAGE NO 3 OF 4	Page of Pages		EXHIBIT P-5A
P1 SHOPPING		UNCLASSIFIED	
ITEM NO 135	P1 SHOPPING LIST		PAGE NO 3 OF 4
			ITEM NO 135

DATE February 1986   PRODUCTION SCHEDULE   Small Mobile Water Chiller (SMVC)   Small Mobile Water Ch	PRODUCTION SCHEDULE   PIIIT   PIITT	PRODUCTION SCHEDULE   PRODUCTION SCHEDULE   PITTER   PI			(M15700)	AUG SEP R					NUG SEP		First	•			Si	_
PRODUCTION SCHEDULE   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIIIII   P-11IIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIIII   P-11IIII   P-11IIIIIII   P-11IIII   P-11IIIIIIII   P-11IIII   P-11IIIIII   P-11IIIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE   P-11IT	PRODUCTION SCHEDULE		February 1995	1 1	JUN JUL					APR MAY JUN JUL		96 program is due to	i			5	
PRODUCTION SCHEDULE   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIIIIII   P-11IIIII   P-11IIIIIII   P-11IIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE	PRODUCTION SCHEDULE	HAC	DATE			09 09			99	V DEC JAN FEB MAR	REMARKS	June award of FYS		<del></del>	<u> </u>		 ;
PRODUCTION SCHEDULE   P-11IIIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11III   P-11IIII   P-11IIII   P-11III   P-11IIIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIIIIIII   P-11IIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIIIIIII   P-11IIII   P-11IIIII   P-11IIIIIIIIIIII   P-11IIIIIIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIII   P-11IIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIIIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII	PRODUCTION SCHEDULE		er (SMWC)	FISCAL	1G SEP OCT NO 10 35	8			9 09	G SEP OCT NO		<del></del>		 2	-	UNCI ASSIFIE	: 5555
PRODUCTION SCHEDULE   P-11IIIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11III   P-11IIII   P-11IIII   P-11III   P-11IIIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIIIIIII   P-11IIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIIIIIII   P-11IIII   P-11IIIII   P-11IIIIIIIIIIII   P-11IIIIIIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11III   P-11IIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIII   P-11IIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIIIIIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII	PRODUCTION SCHEDULE		Water Chille	ي ا	N 8	₹			30 40	AY JUN JUL AU	ON LEAD TIM	br	_			_	_
PRODUCTION SCHEDULE   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIIIIII   P-11IIIII   P-11IIIIIII   P-11IIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE   P-11IIII   P-11IIII   P-11III   P-11IIII   P-11IIII   P-11IIII   P-11IIIII   P-11IIIIIII   P-11IIIIIII   P-11IIIIIIIIII   P-11IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PRODUCTION SCHEDULE		A NOMENCLATUR Small Mobile		EB MAR APR M				2	EB MAR APR W	PRODUCTI	ADMIN LEAD TIME		ŏ			
BAL FISCAL YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL PRODUCTION  S NAME  A MIN 1-8-5 MAR  BAL FISCAL YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 10L 10L 10L 10L 10L 10L 10L 10L 10L 10	BAL FISCAL YEAR 95  DUE AS OF OCT NOVI DEC JAN FEB MAR APR MAY JUN JUL JUL PRODUCTION  ST2  ST2  ST2  ST4  A MIN 1-8-5 MAR  AN MIN 1-8-5 MAR  AN MIN 1-8-5 MAR  AN MIN 1-8-5 MAR  AN MIN 1-8-5 MAR  PP. PRODUCTION  RATES  A MIN 1-8-5 MAR  PP. PROBLEM MAY JUN JUN JUL PRODUCTION  RATES  A MIN 1-8-5 MAR  PP. PROBLEM MAY JUN JUN JUL PRODUCTION  RATES  A MIN 1-8-5 MAR  PP. P. P. P. P. P. P. P. P. P. P. P. P.	BAL FISCAL YEAR 95  DUE AS OF 94 CALENDAR YEAR 95  10CT OCT NOW DEC JAN FEB MAR APR MAY JUN JUL 10L JU		P.11TE	1						JAN				+	REORDER		
BAL FISCAL YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL PRODUCTION  S NAME  A MIN 1-8-5 MAR  BAL FISCAL YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 10L 10L 10L 10L 10L 10L 10L 10L 10L 10	BAL FISCAL YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL PRODUCTION  S NAME  A MIN 1-8-5 MAR  BAL FISCAL YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  A CALENDAR YEAR 95  BAC OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 10L 10L 10L 10L 10L 10L 10L 10L 10L 10	BAL FISCAL YEAR 95  DUE	ED		FISCAL	NG SEP OCT N					JG SEP OCT NO		REACH MAX	_			HOPPING LIS	
BAL FISCAL YEAR DUE AS OF 1 OCT OCT NOV DEC  185  S NAME  47	BAL FISCAL YEAR DUE AS OF 94 1 OCT OCT NOV DEC 185 387 SNAME	BAL FISCAL YEAR DUE AS OF 94 1 OCT OCT NOV DEC 185 387 387 387 4			85	JUN JUL					AY JUN JUL AL	DUCTION	WIES				P-1 S	
BAL FISCAL YEAR DUE AS OF 1 OCT OCT NOV DEC  185  S NAME  47	BAL FISCAL YEAR DUE AS OF 1 OCT OCT NOV DEC  185  S NAME  47	BAL FISCAL YEAR DUE AS OF 94 1 OCT OCT NOV DEC 185 387 387 387 4 AMME	PROD			FEB MAR APR N					EB MAR APR M	PRO						
BAL DUE AS OF 1 OCT 1 OCT 1 OCT 1 S NAME 4	BAL DUE AS OF 10CT 10CT 185 387 572 87	BAL DUE AS OF 1 OCT 1 OCT 1 S NAME 1 S NAME				XCT NOV DEC JAN												
ACCEP PRIOR TO 1 1 OCT 1 CTURER'S LOCATION	AR) 1092  ATION RUDGET ACTIVITY COURTENITS ACCEP  TO TO TO TO TO TO TO TO TO TO TO TO TO	PORTS CONTROL SYMBOL COMP(AR) 1092 ROPRIATION RUDGET ACTIVITY BE Frocurement: Army 3 BE SUPPORT Equipment TO V FY QTY 1 OCT 1 V FY QTY 1 OCT 1 A 96 387 A 96 387 A 96 387 A DD Form 2445, Jul				185	387	 	 	572		194614					87	;
	ARY 1092 ATON 10	S COMP(AR) 1992 ROPRIATION / BUDX Re Procurement: Re Procureme	YMBOL	Army 3		1 OCT							LOCATION				n 2445. Jul	

		S O	SIFIED					
REPORTS CONTROL SYMBOL							)	
DD-COMP(AR) 1092	BUDGET	ITEMJL	ISTIFIC #	DGET ITEM JUSTIFICATION SHEET	EET		DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			,
Other Procurement: Army 3				ITEMS LESS	ITEMS LESS THAN \$2.0M (WATER EQ)	I (WATER E	ଟି	
Other Support Equipment							•	
								( ML5335)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	4.1	3.0	2.4	3.1	3.0	3.1	3.3	5.6

**DESCRIPTION:** The equipment procured with these programs supports the Army mission of providing potable water to soldiers in their consumption, this items support personal hygiene, emergency medical conditions, equipment maintenance, and nuclear, biological and field of operations. They provide life sustaining water to the front line and remote units in tactical environments. In addition to chemical decontamination. They include a wide variety of low unit cost, high usage items such as water tanks, pumps, water purification, storage and distribution systems. Each have an annual procurement of under \$2 million.

uneconomically reparable assets, and provide state-of-the-art equipment. This equipment is normally low unit cost, high usage assets which result in high washouts and losses. New technology improves combat capability and the individual soldiers quality of life. JUSTIFICATION: Equipment acquired under these programs is required to fill existing shortages, replace overaged and FY 96/97 programs are required to satisfy specific shortfalls and requirements that occur during these periods.

Page of Pages	EXHIBIT P-40
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	PAGE NO
P-1 SHOPPING LIST	ITEM NO 136
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REPORTS CONTROL SYMBOL   DD-COMP(AR) 1092	S	EAPON SYS	WEAPON SYSTEM COST ANAI YSIS	ANA! YSIS E	EXHIBIT			T + 4 C	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	S THAN \$2.00	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ)	<u> </u>	rebruary 1995
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		(MECOSO)
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97	Quantity
M115, PUMP UNIT, 350 GPM	4		2	12,500	<u> </u>				·
M120, TANK, FABRIC, 50,000 GAL	∢	10,325	80 826	10,358	53 549	10,355	62	10,355	642
M124, TANK, FABRIC, 20,000 GAL	∢	5,343	35 187	5,333	36	5,347	75	5,347	75
M128, DRUM, FABRIC, 500 GAL	∢	2,450	100	2,450	189	2,449	<del>-</del>	2,450	460
M132, WATER STOR & DIST SYS, 40K	∢	89,500	358						
M141, TANK, FABRIC, 4570 GAL	∢	6,147	95 584					7.064	78
M155, HYPOCHLORINATION UNIT	∢	5,362	177				•		
M160, PUMP UNIT, 125 GPM	∢		36	1,513	1,291	1,517	143	1,517	143
M660, TANK, FABRIC, 3,000 GAL ENGINEERING SUPPORT	∢		875					6,292	<b>25.</b> 4.0
TOTAL			4,067		2,995		2,394		3,089
P-1 SHOP	P-1 SHOPPING LIST EM NO 136	3 LIST	PA	2	OF 5	ONC	UNCLASSIFIED	Page of	Pages

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REPO	REPORTS CONTROL SYMBOL	ITEMSE	ES S	THAN \$2MILLION DOLLARS	LLION	DOLLAR	v,	DATE February 1995	mary 1995	
Other (	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	1				P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ)	A (WATER E	(D:	
	Omer Support Equipment							CA L		(ML5335)
				ASSETS ON HAND	•				-	
ITEM	NOMENCLATURE	AAO	ASSETS ON-HAND	BY FDP (INCLUDES BUY QTY)	UNIT	QUANTITY REQUIRED	TOTAL DOLLARS (THOUSANDS)	CONTRACT	CONTRACT	AWARD DATE
-	M160, PUMP UNIT, 125 GPM	4,913	1,232	1,985	1,513	853	1,291	FP/REQ	၁	May-95
7	M115, PUMP UNIT, 350 GPM	122	82	120	12,500	40	200	FP/REQ	ပ	Aug-95
	M126, DRUM, FABRIC, 500 GAL	5,951	2,297	2,350	2,450	189	463	FP/REQ	O	May-95
4	M120, TANK, FABRIC, 50,000 GAL	320	314	319	10,358	53	549	FP/REQ	Ů	Aug-95
20	M124, TANK, FABRIC, 20,000 GAL	327	110	145	5,333	36	192	FP/REQ	U	Aug-95
· .	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.									
	TOTAL						2.995			
	P-1 SHOPPING LIST	GLIST						Page	of Pages	
	ITEM NO 136	136	PAGE NO	3	OF 5	UNCLA	UNCLASSIFIED	EX	EXHIBIT P-3B	

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REPO DD-CC	REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	TEX	H L SS H	THAN \$2M	2	SOA LICE NOI LIMES	ď	DATE FOL		
APPR	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	I .				P-1 ITEM NOMENCLATURE	P-1 ITEM NOMENCLATURE	AMATER FOLIA	1993	
Othe	Other Support Equipment							M (WA I EK FY 96	(S)	(MI 5335)
ITEM	NOMENCLATURE	AAO	ASSETS	ASSETS ON HAND BY FDP (INCLUDES	TIND	QUANTITY	TOTAL DOLLARS	CONTRACT	CONTRACT	AWARD
-	M126, DRUM, FABRIC, 500 GAL	5,951	2,350	2,775	2,449	463	(IHOUSANDS) 1,134	TYPE FP/REQ	ССС	DATE Feb-96
7	M120, TANK, FABRIC, 50,000 GAL	320	319	314	10,355	62	642	FP/REQ	ပ	96-unf
<u>е</u>	M124, TANK, FABRIC, 20,000 GAL	327	145	220	5,347	75	401	FP/REQ	ပ	Jun-96
4	M160, PUMP UNIT, 125 GPM	4,913	1,985	2,100	1,517	143	217	FP/REQ	ပ	Apr-96
	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.								•	
		·								
						,				
	TOTAL						2,394			
	P-1 SHOPPING LIST	G LIST				UNCLA	UNCLASSIFIED	Page	of Pages	gr (*)
	ITEM NO 136	136	PAGE NO		OF 5			Ē	EXHIBIT	ee,
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Denoted	SAMPOL SYMBOL			SSIFIED						
00-00	DD-COMP(AR) 1092	ITEMSL	LESS TH	THAN \$2M	ILLION	\$2MILLION DOLLARS	S	DATE February 1995	uary 1995	
APPR Other	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (WATER EQ) FY 97	M (WATER E FY 97	(0:1	
								<b>5</b>		(ML5335)
<u> </u>	· · · · · · · · · · · · · · · · · · ·	(	C C C C	ASSETS ON HAND BY FDP	ŀ		TOTAL			
S S	NOMENCLATURE	AAO	ASSETS ON-HAND	(INCLUDES BUY QTY)	COST	QUANTITY REQUIRED	DOLLARS (THOUSANDS)	CONTRACT TYPE	CONTRACT METHOD	AWARD DATE
-	M141, TANK, FABRIC, 4570 GAL	864	156	225	7,064	78	551	FP/REQ	ပ	Feb-97
<b>N</b>	M126, DRUM, FABRIC, 500 GAL	5,951	2,775	3,200	2,450	460	1,127	FP/REQ	ပ	Feb-97
က	M120, TANK, FABRIC, 50,000 GAL	320	314	315	10,355	62	642	FP/REQ	U	Mar-97
4	M124, TANK, FABRIC, 20,000 GAL	327	220	295	5,347	75	401	FP/REQ	o ·	Mar-97
	M660, TANK, FABRIC, 3000 GAL	246	107	124	6,292	24	151	FP/REQ	U	Apr-97
ω	M160, PUMP UNIT, 125 GPM	4,913	2,100	2,200	1,517	143	217	FP/REQ	U	Apr-97
<u> </u>	NOTE: Assets On-hand by FDP are the Assets On-hand plus the Quantity Required offset by projected washouts of uneconomically reparable assets and other losses. These items are low unit cost and high usage, resulting in high washout rates.									
	TOTAL						3 080			
	P-1 SHOPPING LIST	LIST					600	Page	of Pages	
	ITEM NO 136	136	PAGE NO	5	OF 5	UNCLA	UNCLASSIFIED	EX	<u> </u>	

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BUDGET ITEM JUSTIFICATION SI	FICATION S	HEET				DATE February 1995	995	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 3 Other Support Equipment	۲۷:			P-1 ITEM NON Combat Suppo	P-1 ITEM NOMENCLATURE: Combat Support Medical (MN1000)	11000)		
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (In Millions)	\$20.8	\$19.2	\$14.3	\$16.5	\$16.6	\$18.4	\$28.8	\$28.8

## DESCRIPTION:

The Combat Support Medical (MN1000) line funds hospital assemblage components for Deployable Medical Systems (DEPMEDS) and acquisition of major medical equipment items required to equip DEPMEDS hospitals and other field medical units such as battalion aid stations, medical clearing stations, dental units, etc.

variety of Medical Force 2000 (MF2K) configurations such as the Combat Support Hospital (CSH), Mobile Army Surgical Deployable Medical Systems (MX0003) provides funding for major nonmedical components of military field hospitals major medical equipment items procured by the Field Medical Equipment line. Field hospitals are available in a which have attributes of mobility, short setup time and efficiency. Hospital components are assembled with Hospital (MASH), Field and General Hospitals.

dental units. In addition, this line provides medical equipment to active and reserve components which must be replaced Field Medical Equipment (MB1100) funds acquisition of major medical equipment items required to equip DEPMEDS combat hospital units and other field medical units such as battalion aid stations, medical clearing stations, and due to fair wear and tear, obsolescence and nonserviceability.

## JUSTIFICATION:

objective of enhancing medical readiness in support of the total Army force structure as directed by DoD and Congress. -unding for Deployable Medical Systems (MX0003) and Field Medical Equipment (MB1100) is essential to the Army's The equipment procured will provide a significant improvement in field medical support capability.

DD Form 2454, JUL 88

P-I SHOPPING LIST ITEM NO. 137 PAGE NO. 1 OF 17

Page 1 of 1 Page Exhibit P-40 Budget Item Justification Sheet

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)		A. Appr Activity Other P	A. Appropriation/Budget B. WEAP Activity Title/No. Other Procurement, Army 3(MN1000)	B. WE/ Combai	B. WEAPON MODEL Combat Support Medical (MN1000)		C. NA	D. DATE: February 1995	E: y 1995
Weapon System Cost Elements	IDEN		FY94		FY95		FY96		FY97
	CODE	QTY	TOTAL COST	αTY	TOTAL COST	αTY	TOTAL COST	ΩTY	TOTAL COST
Deployable Medical Systems (MX0003)	-		\$6,193		\$11,088		\$7,441		\$7,716
Field Medical Equipment (MB1100)			\$14,558		\$8,121		698'9\$		\$8,768
					7				
TOTAL			\$20,751		\$19,209		\$14,310		\$16.484
		P-1 SHOPPIN ITEM NO. 137	P-1 SHOPPING LIST ITEM NO. 137 Page No. 2 of 17	ıf 17		xhibit P	Exhibit P-5 Weapon System Cost Analysis	Cost An	

Exhibit P-5 Weapon System Cost Analysis

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DD-COMP(AR) 1092	11 I		40141	3 3 1 5 5			חשוב נבחוחם	1333
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ICLATURE			
Other Procurement: Army 3				DEPLOYABLE	MEDICAL SYS	DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS)	:DS)	
Other Support Equipment								10000
								IMADOUS)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	6.2	11.1	7.4	7.7	7.0	9.3	10.9	10.9

DESCRIPTION: The Deployable Medical System (DEPMEDS) is a military field support hospital, which has the attributes of mobility, short set-up time, and efficiency. Hospitals are to be available in four basic configurations in a variety of Medical Force 2000 (MF2K) applications, such as Mobile Army Surgical Hospitals, Combat Support Hospitals, and Field/General Hospitals.

The complexes consists of one and two sided expandable tactical shelters, two and eight section Tent, Extendable, Modular, Personnel (TEMPER), and related power, water, and environmental control systems. The hospital configurations facilitate patient care and medical productivity while retaining full medical responsiveness to combat scenarios. Modular Field Kitchens have been integrated into this system to provide for the special dietary requirements of hospitals. This system has been standardized throughout the Department of Defense.

JUSTIFICATION: Justification of specific elements supporting DEPMEDS is displayed on individual P-Form exhibits. Acquisition of equipment required for initial fieldings of original and modified unit configurations has been completed. Out year acquisitions support sustainment requirements and incremental enhancements to unit capabilities.

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DD-COMP(AR) 1092	^	WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	NALYSIS EXH	IBIT			DATE February 1995	7 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICA	P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS	TEMS		
Other Support Equipment									
	*	MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/ DEPMEDS	WEAPON MODEL/SERIES/POPULAR NAME DEPMEDS	NAME		
									(MX0003)
Weapon System Cost Elements		FY 94	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	DF DOLLARS FY 96	Quantity	FY 97	Quantity
M330 FIELD MEDICAL OXYGEN GENERATING AND DISTRIBUTION SYSTEM (FMOGDS)	A A	ONIL COST	300	352,632	101AL CUSI 19 6,700	290,789	101AL CUSI 19 5,525	290,800	101AL COST 15 4,362
No SSN WATER DISTRIBUTION AND WASTE WATER COLLECTION SYSTEM	4					150,102	109,1	151,080	1,511
ITEMS LESS THAN \$2 MILLION	∢		5,893		4,388		415	•	1,843
TOTAL			6,193		11,088		7,441		7,716
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	BUDGET	TEM JUS	TIFICATI	ET ITEM JUSTIFICATION SHEET			
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ATURE		
Other Procurement: Army 3				DEPLOYABLE M	DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS)	MEDS)	
Other Support Equipment				ITEMS LESS THAN \$2.0 M	AN \$2.0 M		
							(MX0003)
	FY 94	FY 95	FY 96	FY 97			
QUANTITY							
COST (IN MILLIONS)	6.3	4.4	0.4	1.8			

DESCRIPTION: These items are nonmedical components of the Deployable Medical System which have an annual program cost of less than \$2.0 million. dollars, or components of end items being procured as initial, sustainment, or replacement issue.

equipment to effectively treat casualities on the integrated battlefield. The CP DEPMEDS provides a clean, toxin free, environmentally controlled patient protection to selected components of a DEPMEDS equipped hospital. Patients and medical personnel must be unencumbered by chemical protective mandates on maintaining a high level of medical care for field units. The goal of Chemically Hardening DEPMEDS is to provide Chemical Biological JUSTIFICATION: These acquisitions meet the direction of the Vice Chief of Staff of the Army direction on Chemical Biological Hardening, and treatment area maximizing use of existing equipment.

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REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092		WEAPON SY	WEAPON SYSTEM COST ANALYSIS EXHIBIT	NALYSIS EXH	HBIT			DATE February 1995	2005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICA ITEMS I ESS THAN \$2	P-1 ITEM NOMENCLATURE DEPLOYABLE MEDICAL SYSTEMS ITEMS I ESS THAN \$2 MILLION	TEMS		
		MANUF, PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	z	WEAPON MODEL/ DEPMEDS	WEAPON MODEL/SERIES/POPULAR NAME DEPMEDS	R NAME		
									(MX0003)
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 NIT COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
No SSN CP DEPMEDS HUB Engineering	A		993	1800	500	COS I COS	IOIAL COSI	ONII COSI	TOTAL COST
No SSN Dolly Set Side Lift Kits	∢			12,745	102				
No SSN TEMPER Liners (Initial Issue)	4	155	11,000						
M339 Air Conditioner 54000 BTU	∢	4,867	226 1,100			4,932	84 415	5,046	249
M338 Power Distribution Panel	∢							•	
R453 DISE 40 Amp	∢			6,020	49 295				
R454 DISE 100 Amp	∢	5,112	313						
No SSN ISU 4 Door Container	٩			6,004	1,2	***************************************			
No SSN DISE Cable Set (1)	∢			606					
No SSN DISE Cable Set (4)	⋖			949	527 500				
No SSN FST Shelters	٨							26727	22
No SSN Sample Data Collection	∢		200		500				<del></del>
TOTAL			5,893		4,388		415		1,843
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REPORTS CONTROL SYMBOL	BUDGETI	TEM JUS.	TIFICATI	ET ITEM JUSTIFICATION SHEET	•		DATE February 1995	, 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	CLATURE			
Other Procurement: Army 3				FIELD MEDICA	FIELD MEDICAL OXYGEN GENERATING AND	ENERATING AN	ð	
				DISTRIBUTION SYSTEM	I SYSTEM			(M33000)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	0	19	19	15	19	19	19	
COST (IN MILLIONS)	0.3	6.7	5.5	4.4	5.5	5.5	5.5	

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separates oxygen from air to create a continuous stream (200 standard cubic feet per hour) of 93 percent pure oxygen. The first priority for use of oxygen is which links this with the hospital facilities. The CFM contains the high pressure oxygen compressor and cylinder filling station assemblies. Air is introduced DESCRIPTION: The Field Medical Oxygen Generation/Distribution System (FMOGDS) consists of two modules, the Oxygen Generation/Distribution Module OGDM), and the Cylinder Filling Module (CFM). The OGDM contains the oxygen generation and storage equipment and the oxygen distribution network into the OGDM, where it is filtered and compressed to about 30 pounds per square inch gage (psig). A two bed pressure swing absorption system at hospital beds. The balance of produced oxygen not utilized in hospital is diverted to the CFM.

JUSTIFICATION: Military conflicts and disaster relief activities result in the need for large quantities of medically pure oxygen. The availability of oxygen is a prime factor in saving lives of wounded personnel. Historically, oxygen has been provided by the use of oxygen cylinders, which present numerous logistical burdens, significant advantages can be realized by utilizing on-site medical oxygen generating systems to enhance logistical, safety and cost ogistical risks associated with transportation, refill and storage. Because of the valid need for large quantities of medical oxygen and the associated considerations.

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REPORTS CONTROL SYMBOL DD COMP(AR) 1092		WEAPON SI	WEAPON SYSTEM COST ANALYSIS EXHIBIT	INALYSIS EXH	HBIT			DATE February 1995	1995
APPROPRIATION /BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE	CLATURE			
Other Support Equipment					PIELD MEDICAL UXYGE DISTRIBUTION SYSTEM	FIELD MEDICAL OXYGEN GENERALING AND DISTRIBUTION SYSTEM	ENERALING AF	<u> </u>	
•		MANUF. PLANT CITY Guild, Inc.	MANUFACTURER NAME PLANT CITY/STATE LOCATION d, Inc.		WEAPON MODEL/ FMOGDS	WEAPON MODEL/SERIES/POPULAR NAME FMOGDS	3 NAME		
		Columbus, OH							(M33000)
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 INIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Engineering (Government)	∢		300		205				
Hardware	∢			282,263	19 5,363	282,263	5,363	282,267	15 4,233
Data	∢				946	• ,	162		129
Testing					186			•	
							•		
									· · · · · · · · · · · · · · · · · · ·
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TOTAL			300	352,632	6,700	290,789	5,525	290,800	4,362
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APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3	DGET ACTIVITY			P-1 ITEM NOMENCLATURE Field Medical Oxygen	IENCLATURE al Oxygen Gen	P-1 ITEM NOMENCLATURE Field Medical Oxygen Generating and Distribution System	ribution Systen	F			
Other Support Equipment	quipment			(FMOGDS)			٠			( M33000)	
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,	
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN	
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE	r
FY 93	Guild, Inc. Columbus, OH	C/FPM-4(1)	USAMMDA	Sep 93	Sep 94	e ·	769,333	Yes	N <sub>o</sub>		
FY 95	Guild, Inc. Columbus, OH	C/FPM-4(2)	USAMMDA	Jan 95	Sep 95	19	282,263	Yes	S S		
FY 96	Guild, Inc. Columbus, OH	C/FPM-4(3)	USAMMDA	Jan 96	Sep 96	19	282,263	Yes	°S		
FY 97	Guild, Inc. Columbus, OH	C/FPM-4(4)	USAMMDA	Jan 97	Sep 97	15	282,263	Yes	, S		
								· · · · · ·			
REMARKS Unit	REMARKS Unit cost for FY 93 contract quantities represent a low rate initial	ntities represent	a low rate initial production (LRIP).	(LRIP).							

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		P.1 ITEM NOMENCLATURE Field Medical Oxygen Generating and Distribution System	7	CALENDAR YEAR	JAN	m <b>4</b>		E NAT				<del>.</del>		ار	Ē		
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	MBOL	Army	<u> </u>			e 1		$\dashv$		IUFAC	<b>≈</b>						Form
	REPORTS CONTROL SYMBOL	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		U/M EA	OT.					MAR		1.	S S				8
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REPORTS CONTROL SYMBOL	BUDGET	TEM JUS.	TIFICATI	T ITEM JUSTIFICATION SHEET			DATE February 1995	1995
APPROPRIATION /BUDGET ACTIVITY	:			P-1 ITEM NOMENCLATURE	CLATURE			
Other Procurement: Army 3				Water Distribution/Waste Water Disposal System	tion/Waste We	ater Disposal S	vstem	
orner support equipment								(NO SSN)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			10	10	10			
COST (IN MILLIONS)			1.5	1.5	1.5			

DESCRIPTION: This system distributes potable water throughout the DEPMEDS complex, and treats used/contaminated water to insure safe disposal. The system is composed of tanks, hoses, fittings, valves, nozzles, meters, gauges, and sinks that provide maximum flexibility in distributing water throughout the DEPMEDS complex.

JUSTIFICATION: The system controls infection and the spread of communicable diseases within the hospital complex by providing a source of safe potable water for use in the treatment of patients, and a means of collecting and treating potentially dangerous used water.

Page of Pages		<b>EXHIBIT P-40</b>
Page	UNCLASSIFIED	
P-1 SHOPPING LIST		PAGE NO 12 OF 17
		ITEM NO 137
	DD Form 2454, Jul 88	

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS EXI	IIBIT			DATE February 1995	7995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE Water Distribution/Was	CLATURE tion/Waste We	P-1 ITEM NOMENCLATURE Water Distribution/Waste Water Disposal System	ystem	
		MANUF/ PLANT CITY See P-5A	MANUFACTURER NAME PLANT CITY/STATE LOCATION P-5A	N	WEAPON MODEL/SERIES/POPULAR NAME WD/WWDS	SERIES/POPULAR		(NXX ON)	
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 INIT COST TOTAL COST UNIT COST	DF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity TOTAL COST
Engineering (Government)					-		44		38
Hardware						141,500	1,415	142,900	1,429
Data					· · · · · · · · · · · · · · · · · · ·		42		44
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TOTAL						141,500	1,501	142,900	1,511
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		ITEM NO	10 137	PAGE NO 13 OF	. 11	ONCLASSIFIED	JEIEU .	E)	RIT P-5

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Other Support Equipment	uipment									( NSS oN )
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COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
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FY 97	TBS	OTHER	ATCOM	Jan 97	May 97	10	142,900	°N	Yes	Apr 95
REMARKS: Depo	REMARKS: Depot Fabrication Program, no First Article Test. Unit cost changes cover anticipated equipment refinements experienced during the production cycle.	First Article Test. oated equipment	refinements experienced o	during the pro	oduction cycle.					
			P1 SHOPPING LIST	4G LIST				Page	of	Pages
		ITEM NO 137	137	PAGE NO 14	1 OF 17	UNCLASSIFIED	IFIED		EXHIBIT P-5A	5A

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BUDGET ITEM JUSTIFICATION	TIFICATIO	N SHEET				DATE	L	
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Army 3-Other Support Equipment	ort Equipment			P-1 ITEM NON Field Medical E	P-1 ITEM NOMENCLATURE: Field Medical Equipment (MB1100)	rebruary 1 100)	Can	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (In Millions)	\$14.6	\$8.1	\$6.9	\$8.8	\$9.6\$	\$9.1	\$17.9	\$17.9

## DESCRIPTION:

Deployable Medical Systems (DEPMEDS) equipped hospitals are comprised on DoD standardized medical modules (e.g., Operating Room, Central Materiel Service, Intensive Care Unit, Triage/Emergency Treatment, Laboratory, X-Ray, etc.). This budget defibrillator-monitor in the ICU and triage-emergency treatment; the diagnostic equipment in the laboratory; and the high ine specifically funds the major medical equipment items in the functional medical modules. For example: the surgical able and anesthesia apparatus in the operating room; the sterilizers in the central materiel service; the ventilator and capacity x-ray units in the x-ray module.

This line funds major medical equipment items for the Army combat hospital force structure. This funding line also buys najor medical equipment required in other field medical units. Examples include defibrillator-monitors, low capacity k-ray units, and sterilizers in medical clearing stations and dental x-ray untis and sterilizers in field dental units. Equipment funding includes OPA procured developmental items that have transitioned from RDT&E advanced development. Examples of developmental items include systems for field CTs, ultrasound imaging, and steam vacuum pulse sterilizers.

# JUSTIFICATION:

DEPMEDS equipped hospital sets, with the necessary medical equipment that will correct the "warstopper" problem of having nsufficient and inadequate medical equipment. This medical equipment enhances the medical readiness position of the field units allowing them to perform their wartime missions.

DD Form 2454, JUL 88

P-I SHOPPING LIST ITEM NO. 137 PAGE NO. 16 OF 17

Page 1 of 1 Page Exhibit P-40 Budget Item Justification Sheet

WEAPON SYSTEM COST ANALYSIS	A. Appropriation/Budget	priation	n/Budget	R	B WFAPON MODE		VIV C	D DATE	· 11
EXHIBIT (P-5)	Activity Title/No	fle/No		Field	Eield Medical Equipment	י פיי	<u> </u>	֡֝֝֝֝֝֓֞֜֝֓֓֓֓֓֓֓֓֓֓֓֓֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	11 E.
	Other Pro	curer	Other Procurement, Army 3	(MB1100)	00)	=		n Ma L	rebidaly 1990
Weapon System Cost Elements	DEN		FY94		FY95		FY96		FY97
		TYT	QTY TOTAL COST		QTY TOTAL COST QTY TOTAL COST	αTY	TOTAL COST	QTY	TOTAL COST
Sustainment/Modernization of previously									
procured DEPWIEDS equipped nospital sets:			\$9,100		\$1,459		\$3,246		\$4.887
Defibrillator		270	2,500	157	1.459				
Liquid Oxygen (LOX) Associated Items of Equipment			1,545						
Computerized Tomography (CT) Scanners		5	3,500						
Augmentation Team Equipment (Multiple)			1,555						
Initial sustainment/rqmts contracts							3 246		7 007
for Equipment Readiness Code (ERC) A medical items for quick replacement & delivery	uick replace	cemen	it & delivery.						,000 , <b>t</b>
(i.e., electro surgical apparatus, pulse oximeter, blood refric	derator on	erating	table dental	Y-rav	high and low c	hiococ	0,01		
portable ventilator, centrafugal analyzer, anesthesia annaratus, sodium notassium analyzer, hidod rosowos, udit soutasticas late	atus sodiu	, L	secium analyz	2 4	od rosowopy up	apacity	A-lays,		
ultrasonic cleaner, solution warming cabinet, chair and stool unit operatory dental, ECC monitor, of any and a stool unit operatory dental, ECC monitor, of a stool o	I init one	1000	dental ECC.	, DIG	od recovery un	ווי, כפווו	raluye lab,		
Sustainment/Modernization of Major Medical	מוווי, סו	arony	ueillai, LCG		, x-ray process	emg me	icnine, sink un		
Equipment for nonhospital fld units:			\$1.500		\$1,045		£1 054		64 OEA
Dental Operatory		285	1.140				10011		70.1
Refrigerators, blood		54	360						
Debrillator				58	541	59	550	200	550
Dental X-Ray	_				504	1	504	)	20.6
Production funding of advanced					•		5		5
developed medical equipment:			\$3,958		\$5,617		\$2.569		\$2.827
Sterilizer		12	1,000			15	1,135	36	2 827
LOX (Pieces; i.e., plant, storage & distribution)	-		1,258		1,500		) ) :	)	120,2
Oltrasound						9	434		
Telemedicine			1,700			)	2		
Dental X-Ray			•		987				
Army Medical Lab Equipment							1,000		
Medical Compressor System				18	630				
Ventilator					2,500			•	
TOTAL			\$14,558		\$8,121		\$6.869		\$8.768
	P.	1 SHC	P-1 SHOPPING I IST						

P-1 SHOPPING LIST ITEM NO. 137 Page No. 17 of 17

Exhibit P-5 Weapon System Cost Analysis

Reports Control Symbol DD-COMP (AR)	BUDGET ITEM JUSTIFICATION SHEET	ATION SHEET	DATE:	DATE: February 1
Appropriation/Budget Activity Other Procurement, Army/Activity 3 Other Support Equipment		P-1 Item Nomenclature Shop Eq Contact Maintenance Trk Mtd	(M61500)	

1995

FY01

FY98

**FY97** 

FY96

FY95

**FY94** 

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COST (MILLIONS)

QUANTITY

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(HMMWV) Heavy Variant (HHV) (1097) is for general use and will provide improved cross-country mobile maintenance support to maneuver DESCRIPTION: The Shop Equipment, Contact Maintenance Vehicle (CMV), Truck Mounted, High Mobility Multi-Purpose Wheeled Vehicle elements. The current CMVs, the gasoline-engine M887 Dodge Truck and Commercial Utility Cargo Vehicle (CUCV) CMV, are unable to operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Troops (FLOT). Contact Maintenance teams using the CMV will perform repairs to equipment on-site in hours of daylight and darkness. Collection Point (UMCP). The CMV will operate as far forward as behind the first terrain feature to the rear of the Forward Line of Own traverse the terrain or maintain sufficient cross-country speed to keep up with support equipment while carrying tools and repair parts. The CMV will deploy to the site of disabled equipment to make repairs of all weapons systems and military equipment. The CMV will

available, continues to exist. In addition, the 1986 CUCV version CMV will not be supported after 1997. This is in line with the "Purefleeting" uneconomically repairable, overaged shops (1500) mounted on the M880 series truck chassis for which spare and repair parts are no longer of performing on-site repairs to disabled equipment. Non-availability of these shops degrades unit mission capability. The need to replace JUSTIFICATION: Readiness posture is being affected by the shortage of Contact Maintenance Shops to fill unit requirements throughout the Army. The Shop Equipment, Contact Maintenance is employed at the intermediate levels of maintenance to provide the capability purifying the vehicular fleet and reduce shortage requirements of spare/repair parts and fuel. The FY 96 and FY 97 CMV programs will also adds to the overall ability of the system to transverse over all types of terrain. The FY 96-97 programs are to support an AAO of concept for Light Maintenance Vehicle. Future procurement of the CMV will be mounted on the HHMWV chassis. This will assist in permit the Army to continue to support the highest priority Force Package 1 units in their tactical maintenance mission. This version

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D. Date February 1995	Qty Total Cost	1,551	173	25	\$			1,754		S
1	FY 97	33711							4. substantially	n Cost Analysi
C. Manufacturer/Location TBS	Oty Total Cost	1,604	145	24	S			1,778	lovember 1994 rial costs were	 napons System
B. Weapon Model/Series Shop Eq Contact Maint Trk Mtd (M6450)	FY 96 Unit Cost								completed in Nater	Exhibit P-5 Weapons System Cost Analysis
B. Weapon Model/Serie Shop Eq Contact Maint Trk Mtd. (M61500)			246	25	· ·			2,812	4 prototypes ng tool sets, le ions.	
ctivity Activity 3	FY 95 Unit Cost	32100							fabrication of ed in combini form submiss	of 6
A. Appropriation/Budget Activity Other Procurement, Army/Activity 3 Other Support Equipment	Qty Total Cost		·						a collected in ys were realiz n previous P	Page 2
A. Appropriatic Other Procurer Other Support	FY 94 Unit Cost		·						based on dat Ithough saving te unit costs o	
	IDENT	<b>B</b>							h FY97 are try 1995. A c develop t	
WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5)	Weapon System Cost Elements	1. Hardware	2. Engineering Support	3. Quality Assurance	4. Documentation			TOTAL	Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994. Cost data was analyzed in January 1995. Although savirigs were realized in combining tool sets, labor and material costs were substantiall higher than the estimates used to develop the unit costs on previous P form submissions.	P-1 Shopping List Item No.: 138

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February 1995

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Appropriation/I Other Procure	Appropriation/Budget Activity Procurement Other Procurement, Army/Activity 3, Other Support	ocurement ly 3, Other Suppor	rt Equipment		P-1 Item Nomenclature Shop Eq Contact Maint	mencla	P-1 Item Nomenclature Shop Eq Contact Maintenance Trk Mtd (M61500)	rk Mtd (	M61500)		<del>-,</del>
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	ατγ	UNIT	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES WHEN AVAIL	
Hardware FY95 FY96 FY97	TBS TBS TBS	C/FP C/FP	ACALA ACALA ACALA	May 95 Jan 96 Nov 96	May 96 Feb 97 Sep 97	79 49 46	32,100 32,729 33,711	No Yes Yes	Yes No No	Feb 95	
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REMARKS:

Cost data was analyzed in January 1995. Although savings were realized in combining tool sets, labor and material costs were substantially higher than the estimates used to develop the unit costs on previous P-form submissions. Quantity changes in FY95 through FY97 are based on data collected in fabrication of 4 prototypes completed in November 1994.

REPORT CONTROL SYMBOL DD-COMP(AR) 1092			DATE	RRASON FOR DELAY	(9)					lity Cargo Vehicle (CUCV)			ly.		FY9/ BEYOND	(8)				tal item	 _		EXHIBIT P-19
DATE: February 1995 R1	P-1 ITEM NOMENCLATURE Shop Eq, Contact Maintenance Trk Mtd		SCHEDULE DATE	T LAST REPORTED	(2)		•	95		Shop Eq Contact Maintenance Trk Mtd, Commercial Utility Cargo Vehicle (CUCV)		E KEFLACED equipment which is lighter and has ingreased makilit.	ici and has lindeased mobili	2004	6					E are not applicable to this item. This is a non-developmental item.			9 Jo
	ACTIVITY: Activity 3,  Other Support Equipment Shop Ec			CURENT	PI AN/ACTITAL.	PLAN/ACUTAL	PLAN/ACTUAL	PLAN/ACTUAL FEB 95	APR 95	Shop Eq Contact Maintena	CO DE DEDI A CREA	I O BE KEFLACED ance equipment which is lich		COMPONENT Through FY94				1.0	0,	OT&E are not applicable to this			Page 4
,	Other Procurement, Army Other Suppo	1. CURRENT DEVELOPMENT AND TEST STATUS			a. Dev test & eval (dtæe)	b. Initial oper test & Eval (101&E)	c. OPER TEST & EVAL (OT&E)	d. AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	2. ESTIMATED DATE OF APPROVAL FOR SERVICE USE	3. EQUIPMENT ITEM(S) TO BE REPLACED	4. EXTENT OF IMPROVEMENT OVER ITEMIS FOLLIPMENT TO BE BERT ACER.	The Shop Eq. CM, HMMWV, is state-of-art maintenance	5. DEVELOPMENT CONTRACT INFORMATION	CONTRACTOR PLANT LOCATION	(1) (2)		Book A cooper	Noch Island Alsenal Rock Island, IL	TOTAL RDT&B FUNDING	6. REMARKS  Current Development and Test Status: DT&E, IOT&E, and OT&			P-1 Shopping List Item No.: 138

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Page 6 of 6

EXHIBIT P-21

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et Activity Procurement , Army/Activity 3 pment FY94 FY95 FY96 FY97 FY98 FY98 FY98 FY98 FY98 FY98 FY98 FY98	Reports Control Symbol DD-COMP (AR)				BUDGET		ITEM JUSTIFICATION SHEET	ATIO	V SHEET					OATE:	DATE: February 1995	ry 1995
10NS) & 7.0 & 4.1 & 4.5 & 4.4 & 4.2 &	Appropriation/Budget Activi Other Procurement, Army/A Other Support Equipment	ity Prod Activity	curement . 3					<b>-</b>	2-1 Item No tems Less	omenclat Than \$2.	ure OM (Ma	int Equip) (	(ML5345	•		
SNO.			FY94		FY95		FY96		FY97		Y98	FY99		FY00		FY01
3 67 8 77 8 77 8 77 8 8 77 8 8 77 8 8 77 8 8 77 8 8 77 8 8 77	QUANTITY			_												-
9 7: 9 1: 9	COST (MILLIONS)	es-	7.0	₩	1.1	€	1.5	€9	4.	€		\$ 1.7	€	6.0	₩	7.0

world. This equipment provides the capability to examine, identify, and render safe ordnance effectively and safely. Army maintenance organizations tasked with maintaining and repairing combat and tactical weapon systems. This equipment is used by EOD personnel to render safe unexploded ordnance and improvised devices throughout the explosive ordnance disposal (EOD) equipment. Major shop equipment shop sets have multi-applications for DESCRIPTION: Provides for procurement of major shop equipment, shop sets, weapons support items, and equipment is for initial issue shortages or to replace overaged and uneconomically reparable assets. EOD

Army Reserve Units for rendering safe unexploded ordnance and improvised explosive devices. The EOD equipment will increase operational unsupportable assets. The EOD equipment is urgently needed to fill unit requirements throughout the active Army, National Guard, and and weapons support units. These requirements include interchange, readiness fixing, and replacement of uneconomically reparable/ JUSTIFICATION: Required to procure tool sets and shop equipment to support current and increasing requirements of maintenance capabilities of EOD units as well as enhance safety of EOD personnel

WEAPONS SYSTEM COST ANALYSIS		A. Appropriat Other Procure	A. Appropriation/Budget Activity Other Procurement, Army/Act 3	otivity Act 3	B. Weapon Model/Series Items Less Than \$2.0M	lodel/Series han \$2.0M	C. Manufacturer/Location Various	rer/Location	D. Date February 1995
EXHIBIT (P-5)	1	Other Support Equipment	t Equipment		(Maint Equip) (ML5345)	(ML5345)			•
weapon system Cost Elements	CODE	FY 94 Unit Cost	Oty Total Cost	FY 95 Unit Cost	Qty Total Cost	FY 96 Unit Cost	Qty Total Cost	FY 97 Unit Cost	Oty Total Cost
1. Andros MK5 (RCT) E788	Ą	08692	19 1,463						
2. Shop Set, EOD E789	¥	1035	98 86						
3. Demolition Equip F001 Set, Expl Elec & Non Elec	∢	1746	232 405	1769	39	1822	01 81	1877	100
4. Torch Outfit, F065 Cutting & Welding Org Maint, Set 5	⋖	1063	34	,		786	46	608	73
5. Shop Set, Spare F079 Part Storage Field Maint, Set 1	¥	5783	166 960	3871	240	3987	94	4107	100
6. Shop Set, Spare F080 Part Storage Field Maint, Set 2	4	4322	214 925						
7. MX22 Remote G008 Firing Device	¥	15991	1,743			17143	42 720	17658	39 689
8. Shop Equip, Canvas G311 Glass Shop, Shelter MTD	¥	31000	31			77484	155	79808	160
9. Shop Set, Welding G341 Field Maint, PCS, Set 8	¥	12000	4 8	10989	22		•		
P-1 Shopping List No.: 140			Page 2	9 0		Exhibit P-5 W	Exhibit P-5 Weapons System Cost Analysis	m Cost Analy	. <u>o</u>

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WEAPONS SYSTEM COST		A. Appropriation/Budget Activity	ion/Budget Ac	ctivity	B. Weapon Model/Series	lodel/Series	C. Manufacturer/Location	rer/Location	D. Date
ANALYSIS		Other Procurement, Army/Act 3	ement, Army//	Act 3	Items Less Than \$2.0M	han \$2.0M	Various		February 1995
EXHIBIT (P-5)		Other Support	t Equipment		(Maint Equip) (ML5345)	(ML5345)			•
Weapon System	IDENT	FY 94		FY 95	Q.	FY 96	Qfy	FY 97	Qfy
Cost Elements	CODE	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
10. Tool Set, Air G395 Assault Engineer Squad	¥	1528	11						
11. Service Kit, Power G651 Plant Operator, 06HF	Ā	255900	1 256	157579	158				
12. Shop Equip, Radiator Test & Rpr G715	<b>4</b>	12400	25			11930	15 179		,
13. Tool Kit, Suppl Fld Maint (EOD) G784	<b>∀</b>		C					5828	35
14. Shop Equip, Small Equip Rpr Shelter G338	∢	22133	99						
15. Brake Machine (PEND)	∢			10500	84				
16. Lathe, Brake Drum S051	<b>∀</b>	4687	150	6169	37 256			6340	9
17. Lathe, Engine S053	<b>4</b>			0006	35 315				
18. Cleaner, Steam Press S600	₹	253000	253						
			7,018		1,144		1,450		1,393
P-1 Shopping List Item No.: 140	0		Page 3	of 6		Exhibit P-5 V	Exhibit P-5 Weapons System Cost Analysis	em Cost Analy	/sis

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS	ITEMS LESS THAN \$2 MILLION DOLLARS	LION DOLLA	RS		DATE: February 1995	nary 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment	IVITY y 3				P-1 ITEM Items Less	P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Mair	P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip)	(diup)	(ML5345)
FY 95 BUDGET/APPORTIONMENT	·		ASSETS O/H END BY FDP			(THOUS)			
NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	(INCLUDES BY QTY)	UNIT	QUANTITY REQUIRED	TOTAL	CONTRACT TYPE	CONTRACT CONTRACT TYPE METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8346	8380	1769	39	69	FFP	RIA	JAN 95
2. Shop Set, Spare Part Storage Field Maint Set 1 F079	\$020	3190	3237	3871	62	240	FFP	RIA	JAN 95
3. Shop Set, Welding, Field Maint PCS Set 8 G341	45	31	33	10989	7	. 22	FFP	RIA	JAN 95
4. Service Kit, Power Plant Operator, 06HF G651	4	7	ĸ	157579	-	158	FFP	RIA	JAN 95
5, Brake Machine (PEND)	09	39	46	10500	<b>∞</b>	84	FFP	ပ	MAR 95
6. Lathe, Brake Drum S051	695	657	694	6169	37	256	FFP	ບ	MAR 95
7. Lathe, Engine S053	290	552	582	0006	35	315	FFP	ပ	MAR 95
TOTAL						1,144			
P-1 Shoppin List Item No.: 140			Page 4	Jo				Exhibit P-3B	8

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REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS	ITEMS LESS THAN \$2 MILLION DOLLARS	LION DOLLA	RS		DATE: Febr	February 1995		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Activity 3 Other Support Equipment	TVITY y 3				P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Mair	VOMENCL Than \$2.0	P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip)	(dinb:	(ML5345)	
FY 96 BUDGET/APPORTIONMENT			ASSETS O/H END BY FDP			(THOUS)				
NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	(INCLUDES BY QTY)	UNIT	QUANTITY REQUIRED	TOTAL	CONTRACT CONTRACT TYPE METHOD	CONTRACT	AWARD DATE	
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8380	8385	1822	10	18	FFP	RIA	JAN 96	
2. Shop Equip, Canvas & G311 Glass Shop, Shelter MTD	146	132	134	77484	7	155	FFP	RIA	JAN 96	
3. Torch Outfit, Cutting & Welding, Org Maint, Set 5 F065	512	304	308	786	4	m	FFP	RIA	JAN 96	
4. Shop Set, Spare Part Storage Field Maint Set 1 F079	2020	3237	3316	3987	94	375	FFP	RIA	JAN 96	
5. MX22 Remote Firing Device G008	350	230	262	17143	42	720	FFP	ပ	MAR 96	
6. Shop Equip, Radiator Test & Repair, FM G715	146	93	108	11930	15	179	FFP	RIA	JAN 96	
TOTAL						1,450				
P-1 Shopping List Item No.: 140			Page 5	9 Jo				Exhibit P-3B	8	

REPORTS CONTROL SYMBOL DD-COMP (AR) 1092		ITEMS LESS	ITEMS LESS THAN \$2 MILLION DOLLARS	LION DOLLA	IRS		DATE: February 1995	ary 1995	
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Army/Ativity 3 Other Support Equipment	IVITY 3				P-1 ITEM Items Les	P-1 ITEM NOMENCLATURE Items Less Than \$2.0M (Maint Equip)	ATURE IM (Maint E	(dinb:	(ML5345)
FY 97 BUDGET/APPORTIONMENT			ASSETS O/H END						
NOMENCLATURE/SSN	AAO	ASSETS ON-HAND	BY FDP (INCLUDES BY QTY)	UNIT	QUANTITY REQUIRED	(THOUS) TOTAL DOLLARS	CONTRACT	CONTRACT CONTRACT TYPE METHOD	AWARD DATE
1. Demolition Equip Set, Expl Elec & Non-Elec F001	9499	8385	8390	1877	10	19	FFP	RIA	JAN 97
2. Shop Equip, Canvas G311 Glass Shop, Shelter MTD	146	134	136	79808	7	160	FFP	RIA	JAN 97
3. Torch Outfit, Cutting & Weldin Org Maint, Set 5 F065	512	308	398	808	06	73	FFF	RIA	JAN 97
4. Shop Set, Spare Part Storage Field Maint Set 1 F079	5020	3316	3401	4107	100	411	FFP	RIA	JAN 97
5. MX22 Remote Firing Device G008	350	262	291	17658	39	689	FFP	υ	MAR 97
6. Tool Kit, Supplemental Field Maint (EOD) G784	339	294	299	5828	9	35	FFP	RIA	JAN 97
7. Lathe, Brake Drum S051	\$69	694	969	6340		9	FFP	ပ	MAR 97
TOTAL						1,393			
P-1 Shopping List Item No. 140			Page 6	Jo Jo				Exhibit P-3B	

REPORTS SOUTHOU SYMBOL DD-COMP(AR)1092

## SHEET JUSTIFICATION - H BUDGET

UNCLASS

DATE February 1995

APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

(R03200) FY 01 8 Ŧ 8 Ŧ P-1 ITEM NOMENCLATURE COMPACTOR HI-SPEED TAMP SELF PROP (CCE) (R03200) FY 98 FY 97 FY 96 8 F FY 94 13.4 109 COST(IN MILLIONS) QUANTITY

DESCRIPTION: The compactor is a commercial item consisting essentially of articulated, centerpoint steering, diesel engine, a hydraulically controlled strike-off/dozer blade, and tamping feet or segmented impact pads on all wheels or drums.

DD Form 2454, JUL 88

ITEM NO 141

P-1 SHOPPING LIST

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UNCLASSIFIED

		5	UNCLASS					
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	9 0 0 8	BUDGET ITEM J	M JUSTIFICATION SHEET	ON SHEET		DATE February 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NOMENCLATURE ROLLER, VIBRATORY, SELI	P-1 ITEM NOMENCLATURE ROLLER, VIBRATORY, SELF-PROPELLED (CCE)	O (CCE)			
Other Support Equipment								(R03300)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00   FY 01	FY 01
QUANTITY		31	25					
COST(IN MILLIONS)		5.8	7.1					

DESCRIPTION: The Vibratory Self Propelled Roller is a commercial Non-Developmental item (NDI) construction equipment roller with the capability of exchanging smooth vibratory and tamping foot compacting functions within a single base self-propelled unit. This will be accomplished by changing the complete drum system, or by applying bolt-on padfoot segments to the existing smooth drum. Roller will be capable of all modes of transportation to include airdrop and helicoper transport for airborne/air mobile units.

Current inventory of JUSTIFICATION: The FY 96 buy of 47 vehicles will replace old and outdated equipment and will reduce operating and sustainment (0 & S) costs. compaction equipment ranges in age from 15 to 30 years and lacks logistics support due to old age.

**EXHIBIT P-40** 

UNCLASSIFIED

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1 OF

PAGE NO

ITEM NO 142

DD Form 2454, JUL 88

P-1 SHOPPING LIST

EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	JÖGET ARMY 3 PMENT	B. WEAPON MODEL/SERII ROLLER, VII	ES/POPULAR NA Bratory self-	B. WEAPON MODEL/SERIES/POPULAR NAME ROLLER, VIBRATORY SELF-PROPELLED (R03300)	300)	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995
WEAPON SYSTEM	IDENT	FY94	ΦTΥ	FY 95	QTY 31	FY 96	QTY 47	FY 97	QTY
	3003	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
HARDWARE	<b>«</b>			129	3999	133	6265		
LOGISTIC SUPPORT					595				
TESTING					653				
ENGINEERING SUPPORT					370		277		
SPECIAL TOOLS					38		ĸ		·
CONTRACTOR SUPPORT					176			·	
ECO					M		m		
TOTAL PROGRAM COST	٠				5834		7115		
DD Form 2446. JUN 86		P-1 SHOPPI	SHOPPING LIST			223	CYCY IS A TOOL WATER OF THE STATE OF THE STA	TOO METO	2
	ITEM NO	142	PAGE NO 2 OF	7			I I - J WEAFUR ST	SIEM COSI A	MALISIS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	1TY P-1 ITEM NOMENCLATURE ROLLER, VIBRATORY, SELF-PROPELLED (R03300)	CTOR METHOD CONTRACTED AWARD FIRST UNIT AVAILABLE REV WHEN TION & TYPE BY DATE DELIVERY QUANTITY COST NOW REQ'D AVAILABLE	LECTED C/FP TACOM JUN 95 SEP 96 31 129,000 YES NO	LECTED C/FP TACOM FEB 96 DEC 96 47 133,298 YES NO		=
BUDGET PROCUREMENT HI	BUDGET ACTIVITY t: Army 3 uipment	CONTRACTOR METHO AND LOCATION & TYP	TO BE SELECTED C/FP	TO BE SELECTED C/FP		DD Form 2446-1, JUL 87
<b>)</b>	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	COST ELEMENT/ FISCAL YR	FY95	FY96	REMARKS	6

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APROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	ow / B	UDGET AL	3 3 3													- 1 g	ITEN N ER, VI	P-1 ITEM MOMEMCLATURE ROLLER, VIBRATORY, SELF-PROPELLED (CCE)	ATURE Y, SELF	-PROPE	1160 (	CGE												
L L	•		PROGRAM QUANTITY	- OUAN	H				$\vdash$	FISCAL YEAR	8						FIS	FISCAL YEAR 96	8												ı	5	(803300)	8
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	$\dagger$	-	╁	1	+-					+				\$	<b>5</b>	MUG SE	Sep OC	OV DEC		JAN FEB MAR APR MAY	Z Z		JUN 3/14	AUG SEP	50	NOV DEC		FEB	JAN FEB HAR APR HAY	HAY JUN	m	AUG SEP		-
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TOTAL	¥ OF	TOTAL MONTHLY PRODUCTION	UCTION				0	78	0	0	6	0 0	0	0	0	0	0	0	•	0	0	0	•	0 10	=	5	5	5	1			_	4	_
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FACILITY	MAN	MANUFACTURERS NAME	RS NAME	•			<b>100K4</b>	PRODUCTION RATES	TATES			HOMITHS	1		-	ROCUR	ENEMT	PROCURENENT LEAD TIME	¥		1	+	REMARKS	-	1	-						<u> </u>		
		Y 10CY	<u>8</u>		<u></u>	MINIMIN	i	1.8.5		HAXIMUM		REACH MAX	ž		ADM	ADMIN LEAD TINE	3 TIR			_		- <u>-</u> -	X CK	MGE ST	ACT AL	MATO DE El INIR	1000	25 PE 75	SPEC.	ENTAT	¥ 8	UEPR I	Ħ	-
	=	TO BE SELECTED	ECTED		+	-		2	+	02		Ξ			1 0CT		AFTER 1 OCT	MANUF.	MANUFACTURING TIME		TOTAL AFTER 1 OCT		T 96 D	ELIVER HENT L	Y ORDE	FY 96 DELIVERY ONDER CALL UP FROM REGUINEMENTS CONTRACT. PROCUREMENT LEAD TIMES BASED ON MAUKET SUNVEY DATA.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MARKE	SURV	TS CON	TRACT.			
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BUDGET
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REPORTS MATROL SYMBOL DD-COMP(AR)1092

GET ITEM JUSTIFICATION SHEET

UNCLASS

DATE February 1995

(MO6105) FY 01 8 ĭ FY 99 FY 98 P-1 ITEM NOMENCLATURE DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER FY 97 8.0 13 FY 96 6.6 **∞** 8 ĭ FY 94 APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment COST(IN MILLIONS) QUANTITY

DESCRIPTION: The Deployable Universal Combat Earth Mover (DEUCE) is a high-speed, high mobility, earth moving system capable of conducting: clearing, leveling, and excavating operations in support of mobility, countermobility, survivablity, and sustainment of engineering missions.

JUSTIFICATION: The DEUCE will increase war fighting capabilities of light engineer units to suport light divisions. Engineers as part of the combined arms team need a lightweight earth moving capability that does not require a prime mover and trailer for operational and tactical movement in the battlefield and is strategically deployable by air. The DEUCE must travel rapidly between job sites, travel across on paved airfields and highways without damaging the surfaces, and be capable of low velocity air drop and roll-on/roll-off from C-130 and C-141 aircraft.

DD Form 2454, JUL 88

S PAGE NO 1 OF 5

P-1 SHOPPING LIST

ITEM NO 143 PAGE NO 1 OF 5

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טיי (מי	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	/BUDGET )   ARMY 3		B. WEAPON MODEL/SERIES/POPULAR NAME DEPLOYABLE UNIVERSAL COMBAT EARTH MOVER	PULAR NAME ERSAL COMBAT	i	(M06105)	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995
B	WEAPON SYSTEM COST ELEMENTS			76	aty	FY 95	QTY	FY 96	aty 18	FY 97	9TY 15
## ## ## ## ## ## ## ## ## ## ## ## ##				T COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	ہے ا
17 9938 8011 552 533 66, JUN 86 ITEH NO 143 PAGE NO 2 OF 5 EXHIBIT P-5 WEAPON SYSTEM COST AMALYSIS	HARDWARE LOGISTIC SUPPORT CONTRACTOR ASSISTANCE SPECIAL TOOLS CAMOUFLAGE PATTERN TESTING GOVERNMENT ENGINEERING ENGINEERING CHANGE ORDERS	н	m						8781 423 30 30 20 12 452 , 159	503	7552 17 50 50 395
JUN 86  ITEM NO 143 PAGE NO 2 OF 5  EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS	PROGRAM UNIT COST								9938	<del></del>	
		LI II	P-1	SHOPPING	1 LIST NO 2 OF 5			EXHIBIT P-	ì	EM COST ANALY	

							DATI	DATE February 1995	ξ. Σ	
APPROPRIATION Other Procuren Other Support	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NOMEN DEPLOYABLE UNI	CLATURE Versal comb	P-1 ITEM NOMENCLATURE Deployable universal combat earth mover	(H06105)	·		
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
FY 96	TO BE SELECTED	CFPW/OPTION	TACOM	96 NOT	FEB 97	18	487,833	NO	YES	Feb 96
۵ ۲	TO BE SELECTED	0 L L L L L L L L L L L L L L L L L L L	TACON	<b>7</b>	NOV 97	<del>2</del>	503,467		•	
REMARKS	FY96 AND FY97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN	RDTE CONTRACT AWARE	DED IN FY95 WHICH IS	FY95 WHICH IS A COMPETITIVE FFP TYPE CONTRACT.	FFP TYPE CO	NTRACT.				
6	DD Form 2446-1, JUL 87	HITER	P-1 SHOPPING LIST	3 OF 5		EXHI	EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING	UREMENT HISTO	ORY AND PLA	INNING

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

	0 E 9 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C 8 C	DATE Coherence 4005				REPORT CONTROL SYMBOL	SYMBOL
BIDGET ACTIVITY		UAIC FEORUARY 19	6			DD-COMP(AR)	1092
Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE Deployable Universal Combat Earthmover	NTURE sal Combat Ear	thmover			
CIDDENT DEVELOPMENT AND PETT OFFICE							(M06105)
CORREST DEVELOPMENT AND TEST STATUS							
		3	SCHEDULE DATE				
	CURRENT	LAST REPORTED			REASON FOR DELAY	AY	
DEV TEST & EVAL (DT&E) PLAN/ACTUAL INITIAL OPER TEST & EVAL (1072E) DIAN/ACTUAL	IUAL Jul 95						
_	UAL Nov 95		······································				
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	2nd atr 96						
EQUIPMENT ITEM(S) TO BE REPLACED D5B, Tractor,	Full-Tracked, LOW-	Speed, Diesel-Engine-Oriven					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED		Improved Transportability and Mobility: Increased Speed to 30 mph (From 7 mph)	ty: Increased S	peed to 30 mph	(From 7 mph)		
DEVELOPMENT CONTRACT INFORMATION	RDT&E	RDT&E FUNDING PROFILE (\$ IN	IN MILLIONS)		i		
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU PYR 94	CY 95	BY1 96	BY2 97	BEYOND BY'S
			1.408	1.407	0.400		0.0
TOTAL RDT&E FUNDING			1.408	1.407	0.400		0.0
REMARKS MS 1/11 approved on May 94: Contract Solicitation efforts	act Solicitation efforts on-going:						**
Contract Award Scheduled for 2nd QTR FY 95.							V.
							S
DD Form 2443, JUL 88	DHS I -	•					
	ITEM NO 143 PAGE NO	40 4 OF 5				EXHIBIT P-19	

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SHEE JUSTIFICATION TER BUDGET

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

P-1 ITEM NOMENCLATURE CRANE,WHEEL MTD, 25T,3/4 CU YD, RT (ATEC)

DATE February 1995

(x00800) FY 01 1.5 8 S ۲Y 5.6 FY 99 3 FY 98 2:2 æ FY 97 2.0 FY 96 2.0 ^ FY 95 FY 94 APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment COST(IN MILLIONS) QUANTITY

DESCRIPTION: This is a commercial all ternain crane, pneumatic tired, diesel engine driven, with fully revolving superstructure and cab, and hydraulically powered telescoping boom. It shall be used to perform lifting, lowering, loading boom. It shall be used to perform lifting, lowering, loading, and excavation; handling general supplies, construction materials and bridging; to support maintenance, collection and classification points, rehabilitation of maintenance routes of communication, resupply points and logistic support facilities.

JUSTIFICATION: The ALL Terrain Crane (ATC) will replace overage 20 and 25 ton cranes (rough terrain and truck mounted) in the Army inventory. The cranes are 15-28 years old. Procurement of the ATC will provide improved readiness, state-of-the-art technology and safety, and be used for peacetime disaster relief applications. The FY 96/97 funds will begin fielding of the ATC.

DD Form 2454, JUL 88

P-1 SHOPPING LIST 144 ITEM NO

S 1 OF PAGE NO

**EXHIBIT P-40** 

**UNCLASSIFIED** 

	ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT	m ←	MODEL/SER CRANE, WHE	MODEL/SERIES/POPULAR NAME CRANE,WHEEL MTD,251,3/4 CU YD, RT (X00800)	R NAME ,3/4 cu yd, R	r (x00800)	C. MAI	C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DAT MONTH/ Februa	D. DATE MONTH/YEAR February 1995
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SHEET JUSTIFICATION 1 1 1 UDGET REPORTS CONTROL SYMBOL OD-COMP(AR)1092

DATE February 1995

ITEMS LESS THAN \$2.0M (CONST EQ) P-1 ITEM NOMENCLATURE APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

								(ML5350)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			,					
COST(IN MILLIONS)	4.0	3.4	2.0	4.	6.	2.9	5.1	٥.
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DESCRIPTION: This program covers various types of Contruction Equipment (CE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

(i.e. Tank Defilade). Construction equipment is required to support tactical wheeled vehicles and combat equipment in the forward deployment zone by constructing maintenance, storage facilities, and roads. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure three different Commercial Construction Equipment (CCE) items (R035 - Steel Wheel Roller, X512 - Drum winch, and R071 - Nuclear Tester). These systems are priority acquisitions identified by the U.S. Army Engineer School (USAES) to replace outmoded, WSIFICATION: This equipment is required so that combat engineering units will be able to build and maintain roads and facilities to support the tactical mission overage equipment that is critically needed for Combat Engineer Units. They will be utilized by these TOE units for road building, port construction, and paving applications. The Nuclear Tester will be utilized by Engineer Construction units to measure the density and moisture levels in soil and asphalt samples.

	1 OF 4
P-1 SHOPPING LIST	ITEM NO 145 PAGE NO 1 OF
	DD Form 2454, JUL 88

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95 (ML5350)	QTY	TOTAL COST		(82) 397		-	397	te Cape
D. DATE MONTH/YEAR February 1995	FY 97	UNIT COST						ST ANALYSIS
	917	TOTAL COST	(21) 194	(123) 587			1981	WEAPON SYSTEM COST ANALYSIS
C. MANUFACTUER NAME PLANT/CITY/STATE/LOCATION		UNIT COST						EXHIBIT P-5 WEA
C. MANUFACI PLANT/CITY,	COST IN THOUSANDS OF DOLLARS  GTY   FY 96	TOTAL COST	(3) 1295 (1) 25 (25) 1672	55			3372	EX
NAME 1 (CONST EQ)	TOTAL CO FY 95	UNIT COST						
B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (CONST EQ) (ML5350)	QTY	TOTAL COST	(13) 309 (13) 1540 (317) 1254	(81) 290 6 (65) 535 (200) 20			3954	G LIST E NO 2 OF 4
B. WEAPON MODEL/SER ITEMS LES (ML5350)	FY 94	UNIT COST						P-1 SHOPPING LIST
JDGET ARMY 3 PMENT	IDENT		<<< a	<b>4444</b>				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT								
ST ANALYSIS			(X512) (M066) (M087) WH (R035) EXC (R048) -	MENTS (M089) (R071) T (M082) (M098) (R034)				DD Form 2446, JUN 86
WEAPON SYSTEM COST ANALYSIS Exhibit (P-5)	WEAPON SYSTEM COST ELEMENTS		WINCH, DRUM 40 T CRANE HOT OIL HEATER ROLLER, STEEL WH SMALL EMPLACE EXC	AUGER ATACHMENTS TAMPER, PISTON NUCLEAR TESTER MELTER, ASPHALT COMPRESSOR ROLLER, TOWED				DD Fo

(ML5350) DEC 95 DEC 95 DEC 95 AWARD Date EXHIBIT P-5a CONTRACT DATE February 1995 CP CP OPTION CONTRACT FF FF (THOUSANDS) TOTAL DOLLARS 194 587 1200 P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0 M (CONST EQ) \$2 MILLION DOLLARS 21 123 17 QUANTITY REQUIRED 9238 4772 70588 UNIT 4 FY 96 3 OF 123 128 128 ASSETS OH END BY FDP (INCLUDES BY QTY) P-1 SHOPPING LIST PAGE NO THAN 37 0 128 145 ASSETS ON-HAND LESS ITEM NO ITEMS 63 205 128 AAO APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 3 OTHER SUPPORT EQUIPMENT WINCH, DRUM (X512) NUCLEAR TESTER (R071) ROLLER, STEEL WH (R035) NOMENCLATURE TOTAL REPORTS CONTROL SYMBOL DD-COMP(AR)1092 - 0 M ITEM NO

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APP OTHE OTHE	APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT, ARMY 3 OTHER SUPPORT EQUIPMENT			P-1 11E	ITEM NOMENCLA	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0 M (CONST EQ)	6)			
				FY 97	24					(ML5350)
11EM NO	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT	CONTRACT	AWARD
-	NUCLEAR TESTER (R071)	202	123	205	4841	82	. 397	E.	OPTION	DEC 96
	TOTAL								·	
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		11	1TEM NO 145 P	PAGE NO 4 OF	4				EXHIBIT P-5a	
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REPORTS CONTROL SYMBOL								<del></del>
DD-COMP(AR) 1092	BUDGET ITEM JUSTIFICATION SHEET	ITEM JU	STIFICA	TION SH	EET		DATE February 1995	ny 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment	•./			PUSHER .	PUSHER TUG, SMALL			
							)	(M44500)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY			1	2	2			
COST (IN MILLIONS)			3.6	7.2	7.2			

Ships (LASH) and general barges in harbors, inland waterways, and along shorelines. It will also assist larger tugs in the performance when fully loaded, no tow in Sea State 2. It will have twin propulsors with twin diesel inboard drive, pilot house controls, five berths, loaded. It will be capable of operating in Sea State 3. This tug will be capable of reaching a minimum of 10 knots sustained speed dinette with seating for four and two diesel engine driven generators. The mission of this tug is to provide towing of Lighter Aboard **DESCRIPTION:** The Pusher Tug will be a steel hull craft approximately 61 feet in length with a maximum draft of 4 feet when fully of heavier utility work.

of all types. The barges and lighters would be moved from vessels anchored offshore into a harbor, form point to point within a harbor, Design 3004, is aged beyond economic maintainability. Furthermore, it is not optimal for us in pushing LASH and other barges used in JUSTIFICATION: The procurement of 5 Pusher Tugs will fulfill approximately 75 percent of the Army's requirement as identified in the capability to move non-powered craft, to include LASH barges, dry and liquid barges, floating cranes, causeway sections, and lighters sustainment of forces during port operations whether fixed or Logistics Over The Shore. To meet this requirement, the Army needs a or from a seaport or anchorage to an inland water port for further trans-shipment operations. The current tugboat, the Small Tug, Army Watercraft Master Plan. There is a total requirement for 7 tugs. The Army has a mission to fully support deployment and cargo movement. Acquiring a dependable capability is a critical issue in the Army and has a high priority

		P-1 SHOPPING LIST		Page of Pages
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ITEMI	ITEM NO. 146	PAGE NO 1 OF 4	•	EXHIBIT P-40

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DD-COMP(AR) 1092	X	EAPON SYS	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE February 1995	1005
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE	NCLATURE			2661 (18)
Other Support Equipment						PUSHER TUG, SMALL	JG, SMALL		(M44500)
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		
			See P-5A						
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97 UNIT COST	Quantity
ITEM HARDWARE	∢								2
PROVISIONING						2,875,000	2,875 376	3,050,000	6,100
GOVERNMENT ENGINEERING						•	200		175
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APPROPRIATION /BUDGET ACTIV	APPROPRIATION /BUDGET ACTIVITY Other Descriptions of Army 3	•		P-1 ITEM NO	MENCLATURE					
Other Support Equipment	equipment			PUS	PUSHER TUG, SMALL	MALL				( M44500)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	METHOD & TYPE	CONIKACIED BY	AWARD	FIRST DELIVERY	QUANTITY	COST	AVAILABLE NOW	REV REQ'D	WHEN AVAILABLE
FY 96	TBS	C/FP (OPT)	ATCOM	Apr 96	May 97		2,875,000	YES		
FY 97	TBS	OPTION	ATCOM	Feb 97	Sep 97	2	3,050,000	YES		
REMARKS										
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ō		Other Support Equipment	lulpment					,				PUS	PUSHER TUG, SMALL	, SMALL						5	MAAROON	_
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(M32400) FY 01 DATE February 1995 FY 00 FY 99 14.9 FLOATING CRANE, 100 - 250 Ton FY 98 P-1 ITEM NOMENCLATURE 14.9 BUDGET ITEM JUSTIFICATION SHEET FY 97 14.9 FY 96 FY 95 FY 94 APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment REPORTS CONTROL SYMBOL COST (IN MILLIONS) DD-COMP(AR) 1092 QUANTITY

BD must be transportable on Float On/Float Off (FLO/FLO) ships, have onboard self-propulsion, self-maneuvering, self-positioning capability; be capable of a conditioning. The BD must operate on diesel and/or Jet Propellant - 8 (JP-8) fuel for 30 days without refueling. It must be operational during night operations DESCRIPTION: The Barge Demick (BD) will be constructed of steel and capable of off-loading existing and projected shipping through the year 2020. The minimum service speed of 4-8 knots; have living accommodations (berthing, cooking, sanitary) for 15 persons; and , have heating ventilation and air and while soldiers are dressed in Mission Oriented Protective Posture IV (MOPP IV) clothing.

JUSTIFICATION: The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics Over The unloading ships designed and built during the mid 1900's and is therefore unable to achieve the reach required by current ship designs. (i.e. Current designs currently is used for this mission albeit it is aged beyond economical maintainability. It is approximately 40 years old. Furthermore, it was designed for Shore (LOTS). To meet this mission, a sub-requirement is to load and discharge heavy cargo from ships and other vessels. The Barge Derrick 264B are wider, longer and taller.) Procurement of the new BD is critical for the Army in support of the LOTS mission. A procurement of 3 BD's will fulfill 50 percent of the Army's requirement as identified in the Army Watercraft Master Plan (AWMP).

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REPORTS CONTROL SYMBOL									2, 1 <sup>2, 15</sup>
DD-COMP(AR) 1092	WEAPON	SYSTE	M COST	WEAPON SYSTEM COST ANALYSIS EXHIBIT	XHIBIT			DATE Febru	February 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE FLOATING CRANE, 100-250 TON	NCLATURE	250 TON		
Other Support Equipment									(M32400)
	PLANT	NUFACTUI	MANUFACTURER NAME PLANT CITY/STATE LOCATION See P-5A	N.	WEAPON MODEL/SERIES/POPULAR NAME	euseriespor	PULAR NAME		
Weapon System Cost Elements	IDENT FY 94	1	Quantity	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
ITEM HARDWARE	<u> </u>	<b>-</b>						13.875.000	101AL COST
PROVISIONING	-		-						13,875
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TOTAL								14,900,000	14,900
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	95		(M32400)	IF YES,	WHEN AVAILABLE		,	Pages	-5A
	ruary 19			SPEC	REV REO'D			jo	EXHIBIT P-5A
	DATE February 1995		ļ	SPECS	AVAILABLE	YES		Page	EX
			.250 TON		UNIT	+	·	Elen	FIEU
	XHIBIT		FLOATING CRANE, 100-250 TON		OUANTITY	<u> </u>	·	INCI ASSIEIED	22000
Q	PLANNING E	P-1 ITEM NOMENCLATURE	FLOATING	DATE OF	FIRST	96 unf			OF 4
ASSIFIED	ORY AND	P-1 ITEM NO			AWARD	Apr 97		LIST	PAGE NO 3
	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT				CONTRACTED	ATCOM		P1 SHOPPING LIST	
	BUDGE			CONTRACT	METHOD & TYPE	C/FP (OPT)			ITEM NO 147
SYMBOL.	0.	BUDGET ACTIVITY	equipment		CONTRACTOR	TBS			
REPORTS CONTROL SYMBOL	DD-COMP(AR) 1092	APPROPRIATION /BUDGET ACTIVITY	Other Support Equipment		COST ELEMENT/	FY 97	REMARKS		

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			Other Support Equipment	oment														i		!												
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BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION /BUDGET ACTIVITY

DD-COMP(AR) 1092 REPORTS C

YOL SYMBOL

Other Procurement: Army 3

DATE: February 1995 P-1 ITEM NOMENCLATURE

RAILWAY CAR, FLAT, 100 TON

Other Support Foundament				RAILWAY C	RAILWAY CAR, FLAT, 100 ION			
								(M37000)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
CLIANTITY	187	241	238	297	356	398	232	393
COST (IN MILLIONS)	15.1	11.5	11.8	15.0	18.6	21.4	12.9	22.5

Railcars are to be prepositioned at select Army installations per the congressionally mandated Mobility Requirements Study (MRS) approved by the Joint Chiefs of Staff (JCS) in January 1992, and per the Army Strategic Mobility Plan (ASMP). As a result of a decision within the Army, used 68 and 89 foot railcars will be DESCRIPTION: Funding is for the acquisition of 68 and 89 foot railcars of a design type already approved by the Association of American Railroads (AAR) acquired beginning in FY 95.

outloaded in C+6 days. Experience with the railroad industry (as evidenced during Desert Shield/Desert Storm) has shown that it takes an average time of seven to preposition railcars at installations such as Ft. Hood, Ft. Campbell, Ft. Stewart, Ft. Bliss and Ft. Benning. The acquisition of railcars is required to outload combat JUSTIFICATION: Prepositioning of railcars at Army installations is essential for mobilization purposes, especially with the forces becoming increasingly CONUSreplacement. As such, to meet the C+2 and C+6 mobilization requirements in response to regional threats/conflicts, it is essential that the Army acquire and and combat support equipment in the time frames required, thereby greatly enhancing our warfighting capability. FY 96 and 97 acquisitions are essential for based. Under the ASMP, the lead brigade at select installations must be fully outloaded to the port of embarkation in C+2 days, with an entire division to be ten days to order and receive commercial railcars for outloading purposes. Additionally, industry is retiring many of their fleet of flatcars with no intention of ncreasing the Army's mobilization readiness state.

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REPORTS CONTROL SYMBOL  DD-COMP(AR) 1092	S	EAPON SYS	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE: February 1995	1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE	NCLATURE			
Other Support Equipment					RAILWAY CA	AR, FLAT, 10	NO TON		(M37000)
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME	EL/SERIES/POP	ULAR NAME		
	See P-5A	<b>5</b> A							
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity
1. Hardware - 68 foot railcar	∢		63		121		122		
2. Hardware - 89 foot railcar	∢	75087			5,761 120	49151	5,996 116		297
3. Engineering Services	Z A A	85892	8,074	47611	5,713 60	49151	5,702 69	50477	14,992 50
TOTAL			15,057		11,534		11,767		15,042
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APPROPRIATION /BUDGET ACTIVITY	SUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Procurement: Army 3	ent: Army 3			RAILWAY	RAILWAY CAR, FLAT, 100 TON	100 TON				
T modding and a										(M37000)
		CONTRACT			DATEOF			SPECS	SPEC	IF YES,
COST FLEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAILABLE	REV	WHEN
	NOITAGE	A TVDE	>8	DATE	DELIVERY	DATE   DELIVERY   QUANTITY	COST	MON	REQ'D	REQ'D AVAILABLE

		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST EL CAGNIT	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	-	TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
68 Foot Railcar FY 94	Ψ	Ö	ATCOM	Jun 94	Nov 94	6	75087	YES	<u>0</u>	
89 Foot Railcar FY 94	AMF, Montreal, Canada	C/FP/Option	ATCOM	Jun 94	Nov 94	94	85892	YES	2	
68 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	121	47611	YES	Q Q	
89 Foot Railcar FY 95	TBS	C/FP	ATCOM	Jun 95	Dec 95	120	47611	YES	ON	
68 Foot Railcar FY 96	1BS	C/FP	ATCOM	Apr 96	Oct 96	122	49151	YES	, ON	
89 Foot Railcar FY 96	TBS	C/FP	ATCOM	Apr 96	Oct 96	116	49151	YES	ON	
89 Foot Railcar FY 97	TBS	C/FP	ATCOM	Apr 97	Oct 97	297	50477	YES	ON	

REMARKS The unit cost decrease beginning in FY 95 is a result of the Army decision to buy used railcars beginning in FY 95.

P1 SHOPPING LIST		Page	of	Pages	
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ITEM NO 149 PAGE NO 3 OF 5		EX.	<b>EXHIBIT P-5A</b>	5A	

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ŏ	ð	DD-COMP(AR) 1092	1				PROD	PRODUCTION	တ	CHEDULE								٥	DATE: February 1995	ebruary	1995			
¥	PROP	PRIATION Æ	APPROPRIATION /BUDGET ACTIVITY	VITY								P-1 ITEM NOMENCLATURE	OMENCLA	TURE										
<u>0 ō</u>	Ther F	Other Procurement: Arm) Other Support Equipment	Other Procurement: Army 3 Other Support Equipment									RAILWAY CAR, FLAT, 100 TON	Y CAR, F	LAT, 1α	NOTO									
			L							-						-							(M37000)	8
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u.		MAN	MANUFACTURERS NAME	ERS NAM	Ē			RATES		MONTHS TO	STO						awai	award made in Jun 94 following completion of	in Jun	94 follor	wing co	npletion	Jou	
⋖	-		& LOCATION	\TION						REACH MAX	MAX	ADM	ADMIN LEAD TIME	IME			FAT	FAT. Starting with FY95 buy of used railcars, a	ng with f	-Y95 bu	y of us	ed railc	ars, a	
9							Z	1-8-5	MAX	AFTER D DAY	DAY			MAN	MANUFACTURING	IG TOTAL		manufacturing time of 7 months is used as that is	ing time	of 7 mo	nths is	used as	thati	(n
		IF Technol	AMF Technotransport, Inc.	ŭ			7	8	180		2	PRIOR	OR AFTER	ER	TIME	AFTER		the representative lead time for taking existing	ntative te	ad time	for tak	ng exis	ting	
7	TBS	S					2	24	72	,,	2	1 OCT	CT 1 OCT	CT		10CT		cars and refurbishing them. Starting in FY95 the	urbishin	g them.	Startir	g in FY	95 the	۵.
	$\bot$										INITIAL	IAL	-	9	12		18 production rate decreases since rebuild shops	uction r	ate decr	eases s	ince re	a plinc	sdo	
	$ \bot $					1					_	REORDER	-	7	9		8 prod	8 production capacity is less than new car shops.	apacity	is less t	han ne	w car s	Jops.	
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	r FY	αTY	1 OCT	1 OCT		OCT NOV DEC JAN FEB MAR APR MAY	阊	<b>3 3</b>	JAN FEB MAR AF	MAR	APR		3	필	10 SE	8	NO F	) DEC	JAN	JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY	ARAP	NA MA	ND,	킭	AUG	빏	Q CI	JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN	N FEB	MAR AF	RMAY	NOS	JUL AL	AUG SEP		œ
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		MANIE	MANITEACTIBERS NAME	IRN SA:	II S						-	<b>X</b>	RATES	<u>:</u>		MONTHS TO	HS 70	<u>_</u>	Γ				-			Г		nsed	used railcars. The production rate decreases to	. The	oroduc	tion ra	te dec	rease	ss to	
			& LOCATION	TION											<u> </u>	REACH MAX	HMA	_		ADM	ADMIN LEAD TIME	AD TIM	삘					24 pe	24 per month on the 1-8-5 schedule as rebuild	on the	1-8-5	sche	dule a:	s rebu	틽	
										_	NIM	+	1-8-5	MAX	_	AFTER D DAY	DDA	≻ा						ANUF/	MANUFACTURING		TOTAL		shops do not have the production capability that	havet	he pro	ductio	n cap	ability	that	
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	TBS									$\bot$			47		*			<u>Z</u> 	INITIA	9		3	9			Τ	3	700	rs cann	ot be d	one.	3		3	}	
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BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1995

APPROPRIATION BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment

REPORTS CONTROL SYMBOL

DD-COMP(AR) 1092

ITEMS LESS THAN \$2.0M (FLOAT/RAIL)

P-1 ITEM NOMENCLATURE

(ML5355)

FY 01 **4**.8 전 80 4.9 FY 99 **8**.3 FY 98 9.7 FY 97 6.0 FY 98 3.6 FY 95 2.5 FY 94 2.0 COST (IN MILLIONS) QUANTITY

DESCRIPTION: Raliroad equipment consists of locomotives, rolling stock, track maintenance equipment, etc., used to support Army ammunition plants, AMC depots, and FORSCOM/TRADOC installations in peacetime and mobilization missions.

materiels used in the ammunition manufacture process, and in the movement of completed ammunition to distribution points. Also, acquisition of rail assets will insure compliance with ammunition production contracts and schedules, will improve the U.S. Army's ability to meet unit training requirements and will improve required per the 23 Sep 91 OASD memo, subject: Management of Intra-Installation Rail Facilities, which states that DOD components will budget for assets replacement of over age, logistically unsupportable assets. Acquisitions will provide a safe, secure means for the transportation and handling of hazardous not meeting Federal Railroad Administration (FRA) standards. Funding in FY 96 and FY 97 will be utilized to procure railroad equipment that meets FRA the capability to meet projected surge-driven scenarios for unit mobilization outloading and ammunition production. Replacement of over age assets is JUSTIFICATION: Rail - acquisition of high quality used raliroad equipment (e.g. locomotives, tank cars, box cars, flat cars, maintenance tool sets) for standards and increases Army Ammunition Plant readiness capabilities.

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	ITEM NO 150	PAGE NO 1 OF 5

Pages

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	>	VEAPON SYS	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE: February 1995	1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE	NCLATURE			C661 (18)
Other Support Equipment					ITEMS LESS	THAN \$2.0N	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)		(ML5355)
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	No	WEAPON MODEL/SERIES/POPULAR NAME	:USERIES/POPU	JLAR NAME		
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97	Quantity
M395, Railway Car, Tank, POL	4								
M377, Boxcar, 50 Ton (50 foot)	<		56	33000			53		51
M371, Flatcar, 50 Ton	∢	35696	1,999	36345	1,999	37717	1,999	39196	1,999
M363, Boxcar, 50 Ton (40 foot)	∢					94294	1,603	99950	1,999
								·	
						**************************************			Mary Page 1
TOTAL			1,999		2,230		3,602		5,957
		P-1	P-1 SHOPPING LIST			INCIARRIER	1	Page of	Pages
		ITEM NO 150		PAGE NO 2 OF	22	201010	יורופט	EXIMAIT P-5	

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APPR	APPROPRIATION /BUDGET ACTIVITY Other Decimement: Army 3					P-1 ITEM NOMENCLATURE	IENCLATURE			
of the contract of the contrac	Other Support Equipment			_	FY 95	ITEMS LES	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	M (FLOAT/R		(ML5355)
E	NOMENCLATURE	AAO	ASSETS	ASSETS ON HAND BY FDP (INCLUDES	UNIT	QUANTITY	TOTAL	CONTRACT	CONTRACT	AWARD
2			ON-HAND	BUY QTY)	COST	REQUIRED	(THOUSANDS)	TYPE	METHOD	DATE
_	M395, Railway Car, Tank, POL	288	582	288	33000	7	231	ď	ပ	Mar-95
~	M377, Boxcar, 50 Ton (50 foot)	485	251	306	36345	52	1,999	Ę.	U	Mar-95
	TOTAL						2,230		<del></del>	
		<b>P</b>	P-1 SHOPPING LIST	IST		7107811	INCLASSIFIED	Page	of Pages	
		ITEM NO	150	PAGE NO 3 OF 5	)F 5	300		Ē	EXHIBIT P-3B	

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REPO DD-CC	REPORTS CONTROL SYMBOL DD-COMP((AR) 1092	ITEMSL	ш 8	THAN \$2MILLION DOLLARS	ILLION	DOLLAR	න ~	DATE: Fet	DATE: February 1995	
APPR	APPROPRIATION /BUDGET ACTIVITY Other Description of Army 3					P-1 ITEM NOMENCLATURE	IENCLATURE			
Othe	Other Support Equipment				FY 96	ITEMS LES	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	M (FLOAT/R	AIL)	(ML5355)
ITEM	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES	UNIT	QUANTITY	TOTAL DOLLARS	CONTRACT	CONTRACT	AWARD
-	M377, Boxcar, 50 Ton (50 foot)	485	<u>i                                     </u>			3	1,999		ပ	Mar-96
8	M371, Flatcar, 50 Ton	2	0	17	94294	17	1,603	ፎ	ပ	Jun-98
	TOTAL						3.602	·	<del></del>	
		P-1	P-1 SHOPPING LIST	ST				Page	of Pages	
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APPR	APPROPRIATION /BUDGET ACTIVITY Other Description / Arms 2					P-1 ITEM NOMENCLATURE	IENCLATURE			
<b>E E O</b>	Other Support Equipment				FY 97	ITEMS LES	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	M (FLOAT/R	AIL)	(ML5355)
ITEM	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS ON HAND BY FDP (INCLUDES	UNIT	QUANTITY	TOTAL DOLLARS (THOUSANDS)	CONTRACT	CONTRACT	AWARD
-	M377, Boxcar, 50 Ton (50 foot)	485	<b>!</b>	ļ	39196	51	1,999		U	Mar-97
8	M371, Flatcar, 50 Ton	9	17	37	99950	20	1,999	Œ	ပ	Mar-97
	M363, Boxcar, 50 Ton (40 foot)	222	0	27	72556	27	1,959	Œ	ပ	76-unc
	TOTAL						. 5,957		·	
		P-1	SHOPPING LIST	ST		V V		Page	of Pages	
		ITEM NO	150	150 PAGE NO 5 (	OF 5	2000	ONOLASSIFIED	EX	EXHIBIT P-3B	,

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REPORTS CONTROL SYMBOL	RUDGET	TEM JE	STIFICA	THE NOIT A DISTIBLY OF THE THE	in In		DATE FEBRUARY 1995	JARY 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment				GENERATO	GENERATORS AND ASSOCIATED EQUIPMENT	OCIATED EC	CIPMENT	(MA9800)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	24.8	25.2	13.8	15.7	15.9	16.5	38.2	65.2
	•							

DESCRIPTION: Rollup of generators with varying sizes and capabilities specifically designed to provide power sources for numerous weapons, communication, medical and support systems which are designed to operate with mobile electric power.

#### JUSTIFICATION:

The Tactical Quiet Generators (TQG) and less than 3 KW Diesel programs are a result of DA and DOD direction to replace the current generator fleet. The current fleet is overaged, and doesn't meet current user requirements. These programs are designed to introduce into the DOD inventory a new family of generators (sizes 3 KW through 60 KM) that will satisfy the user requirements for.

- Reduction in detection by threat forces of 80% (low operating noise and infrared suppression).
- Improved ground mobility, lighter weight, 5, 10, and 15 kw trailers compatible with HMMWV
- Improved reliability and lower operating and support costs. (reduction in scheduled maintenance, reduction in fuel consumption) 4. 4. 6.
  - Improved battlefield survivability (high altitude electromagnetic pulse protection)
    - Single fuel on the battlefield (diesel/JP8).
- Reduced generator requirements (with utilization of the Distribution Illumination System Electric DISE).

The generators and associated equipment budget line is a roll line containing some 40 separate generators, power plants/power units and associated equipment. survivability. These mobile generators provide electrical power to virtually every weapon, communication, medical, and combat support system in the Army The TQG program will replace the current fleet of overaged, gasoline fueled generators with assets that will enhance the user's safety and inventory. All new systems procured that require electrical power will be supported by these generators.

**	Page of Pages		EXHIBIT P-40
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	LIST	•	OF 45
	P-1 SHOPPING LIST		PAGE NO 1
			ITEM NO 151
		DD Form 2454, Jul 88	

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DD-COMP(AR) 1092	WEAPON SY	SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE FEBF	FEBRUARY 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment				P-1 ITEM NOMENCLATURE GENERATORS AND A	NCLATURE RS AND ASS	P-1 ITEM NOMENCLATURE GENERATORS AND ASSOCIATED EQUIPMENT	CUIPMENT	
	MANUF PLANT CIT	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MODEL/SERIES/POPULAR NAME GENERATORS AND ASSOCIATED	EL/SERIES/POP RS AND ASS	WEAPON MODEL/SERIES/POPULAR NAME GENERATORS AND ASSOCIATED EQUIPMENT	CUIPMENT	
Weapon System Cost Elements	IDENT FY 94	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 INIT COST TOTAL COST	OF DOLLARS FY 96	Quantity	FY 97	Quantity
3 KW GENERATOR SETS	ļ			903 5091		532		614 3576
5KW GENERATOR SET		60 1037		22 774		32 494		185 2116
10KW GENERATOR SET		307		187		143 1695		244
15KW GENERATOR SET		184 4046		919		173 2659		265
30KW GENERATOR SET		150 3759		337		147 2481		. 265
60KW GENERATOR SET		132		196		103		330
POWER UNITS/POWER PLANTS		151		670		73		262
DISTRIBUTION ILLUMINATION SYSTEMS		100		1587		100		161
READINESS INCENTIVES		2649		1534		685		1608
TOTAL	. :	24797		25206		13761		15715
	ITEM NO	P-1 SHOPPING LIST	PAGE 2	OF 45	UNCLASSIFIED	SSIFIED	Page EXHI	of Pages

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REPORTS CONTROL SYMBOL	BUDGET	DGET ITEM JUSTIFICATION SHEET	STIFICA	TIONSH	EET		DATE FEBRUARY 1995	JARY 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment				GENERATO	GENERATOR SETS 3 KW	≥		
	FY 94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
DIANTITY		903	532	614	312	324	823	1368
SNOT TIME IN MILE TO STATE OF THE STATE OF T	0.0	5.1	3.6	3.6	1.3	1.4	3.2	5.5
	<b></b>							

DESCRIPTION: 3 KW Generator Set, Skid Mounted, Diesel Fueled Tactical Quiet Generator

JUSTIFICATION: This program will replace existing gasoline fueled generator sets with assets that increase safety and survivability by reducing operating generators are components of the power plant production program. They are required for materiel fielding, and replacement of gasoline fueled generators noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these supporting the following systems:

- Avenger
- Mobile Subscriber Equipment
  - Patriot Missile
    - Hawk Missile
- Multiple Launch Rocket System
- Numerous communication and combat support systems.

The programs in FY96/97 is intended to continue the production of the 3KW TQG's and match the fielding of the 5-60KW TQG's.

		P-1 SHOPPING LIST	SLIST		Page	of	Pages
DD Form 2454, Jul 88				UNCLASSIFIED			
	ITEM NO 151	PAGE 3	of 45		ш	EXHIBIT P-40	-40

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		WEADON	WEADON SYSTEM COST ANALYSIS SYLIBIT	VA OLO VOIG	į.			- 1	
APPROPRIATION /BUDGET ACTIVITY		WEAT ON S	I SI EM COSI V	AIVALT 313 EX	P. 1 TEAN MONACHICI ATLIBE	ATURE		DATE FEBRUARY 1995	4RY 1995
Other Procurement: Army 3 Other Support Equipment					GENERATOR SETS 3 KW	SETS 3 KW			
		MANUF PLANT CIT	MANUFACTURER NAME ANT CITY/STATE LOCATION	Z	WEAPON MODEL/SERIES/POPULAR NAME TQG	SERIES/POPULA TOG	R NAME		
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COS FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Ouantity
	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1. Item Hardware	∢		0		903 4516		532 2771		614
2. Engineering Government			0		302		258		176
3. Eng Change Orders			0		86		100		100
4. First Article Test			0		175		208		0
5. Data			0		0		250		0
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	OL SYMBOL	BUDGET PROCUR	ROCUREMENT HIST	FORY AND	EMENT HISTORY AND PLANNING EXHIBIT	XHIBIT		DATE FEBRUARY 1995	RUARY	1995	
APPROPRIATION	APPROPRIATION /BUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE						
Other Procurement: Army 3 Other Support Equipment	nent: Army 3 Equipment			GENER	GENERATOR SETS 3 KW	3 KW					
		CONTRACT			DATEOF			SPECS	SPEC	IF YES,	
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN	
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MON	REQ'D	AVAILABLE	
1989	Fermont Corp. Bridgeport, Conn. (M851) 3/60 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	3800	5,000	Yes			
	(M536) 3/400 KW	C/FP REQ4(1)	TROSCOM	Apr-89	OCT-95	97	5,250	Yes		#0	
1995	TBS (M581) 3/60kW	C/FP REQ4(1)	ATCOM	APR-95	AUG-96	903	5,000	Yes			
1996	TBS (M581) 3/60kW (M536) 3/400kW	C/FP REQ4(2) C/FP REQ4(2)	ATCOM	Jan-96 Jan-96	AUG-97 AUG-97	445 87	5,175 5,383	0 0 2 2	Yes	Mar 95 Mar 95	
1997	TBS (M581) 3/60kW (M536) 3/400kW	C/FP REQ4(3) C/FP REQ4(3)	ATCOM	Jan-97 Jan-97	JAN-98 JAN-98	546 68	5,350 5,570	0 0 2 2	Yes	Mar 95 Mar 95	
REMARKS	First delivery date for the FY89 buy has been extended due to First Article Test failure. Necessary changes have been completed and testing is in progress. Production approval scheduled for 1QFY95.	FY89 buy has be e been completed eduled for 1QFY99	en extended due to F and testing is in progr 5.	irst Article T ess.	est failure.						
	FY95 award contingent on First Article Test acceptance. FY96 contract is a new requirements type contract with delivery order options for FY96, FY97 & FY98.	on First Article Tes equirements type	st acceptance. contract with delivery	order optior	IS for FY96, F	'Y97 & FY98.					
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			DUE AS OF		SO CALENDAR YEAR	R YEAR	95		FISCAL	FISCAL YEAR	96 CALENDAR YEAR		8		FISCAL YEAR		97 CALENDAR YFAR	AR	26		< ⊢ <sup>u</sup>	
-	<u> </u>	1 OCT	_	OCT NOV DEC JAN FEB MAR APR MAY JUN JUL A	JAN FEB	MARAPR	MAY JUN .	JUL AUG	UG SEP OCT NOVIDEC		AN FEBIN	ARAPRIM	JAN FEB MAR APRIMAY JUN JUL AUG SEP OCT NOW DEC JAN FEB MAD APP MAD	AUG SE	OCTINO	ADEC JAN	FEBINAD	VANIONA	16	3		
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MANUFACTURERS NAME         RATES         MONTHS TO         REACH MAX         APPRIOR         AFTER TIME         TOTAL           FERMONT CORP. BRIDGEPORT CT         150         450         999         8         PRIOR         AFTER TIME         AFTER AFTER TIME         1 OCT						3	2	3	Z I	É	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Z S	210N	3	3				Œ	ODUCT	ONLE	O TIME			~	EMARK	S					
REACH MAX   REACH MAX   AFTER DDAY   MANUFACTURING   TOTAL	u	2	14MIE	ACTURE!	RS NAN	Ξ					•	RA	ËŠ		Š	ITHS TC	Ť							_		Y 89 IS	A FOUR	rear R	EQUIRE	EMENTS	TYPE	
FERMONT CORP. BRIDGEPORT CT         MIN         1-8-5         MAX         AFTER DDAY         AFTER         MANUFACTURING         TOTAL           TBS         450         999         8         1 OCT	_ 4	2		R LOCAT	NOL	ļ				<u></u>			-		Æ	CH MA			ADMIN	LEAD 1	J.				<u> </u>	ONTRA	ot. Deli	VERY S	CHEDU	LE SHO	WNISE	ASED
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APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment					GENERATOR SET 5KW TQG	R SET 5KW	TQG	
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	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	90	22	32	185	182	191	482	905
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DESCRIPTION: 5 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged gasoline/diesel generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signature suppression. Some of these generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:

# MISSILE/AIR DEFENSE SYSTEMS:

- Hawk Missile Systems
- Tow Missile Systems
- Patriot Missile System
- Avenger
- · Multiple Launch Rocket System

# COMMUNICATION SYSTEMS:

- Command and Control Centers - Helicopters (AH-64, AH-1) SUPPORT SYSTEMS:

- Radio Terminal Systems (BCR 11)
  - Radio Relay/Repeater Systems
- Satellite Communication Systems
  - **Combat Computer Systems**

production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity. NOTE: Due to the component commonality in the 5 & 10KW, they are to be procured under the same contract and produced on the same

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APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE GENERATOR SET 5KW TO	CLATURE SET 5KW TQ			
		MANUF PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	2	WEAPON MODEL/SERIES/POPULAR NAME	/SERIES/POPULAF	R NAME		
						<b>T</b> 06			
Weapon System Cost Elements	IDENT	FY 94	Quantity	TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
1. Item Hardware	<		60	1803	22 193	ONI COSI	32 303	ONII COST	101AL COST 185 1804
2. Engineering Government			140		430		137		123
3. Data			09 .		51		32		50
4. Engineering Change Orders			61		50		22	•	14
5. Acceptance Testing			249		50		0		125
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APPROPRIATION /	APPROPRIATION /BUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Procurement: Army 3 Other Support Equipment	nent: Army 3 Equipment			GENERAT	GENERATOR SET 5 KW TQG	W TQG				
		CONTRACT			DATEOF	,		SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
1994	Fermont, Bridgeport,CT (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan 95	96 Jnf	09	8,784	Yes		
1995	Fermont, Bridgeport,CT (M535) 5/60 KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	22	8,784	Yes	Š	
1996	Fermont, Bridgeport,CT (M535) 5/60 KW	C/FP REQ 3 (3)	ATCOM	Jan-96	Jun 97	32	9,467	Yes	Š	
1997	TBS (M535) 5/60 KW	C/FP REQ 3 (1)	ATCOM	Jan-97	Jul 98	185	9,752	S S	Yes	Mar 96
									·	
REMARKS	Unit costs changed to ref	flect actual processes requirem	Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.  FY94 contract is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test.	2 contract at y order optic	nd subsequer ons in FY94-9	nt inflation. 95-96. FY94 cc	ontract has F	irst Article	Test.	
	FY97 contract is a new 3-year requirements contraction to acquisition reform guidelines, conversion of prior to issuance of follow-on procurement in 1997.	J-year requirem n guidelines, co w-on procurem	FY97 contract is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has First Article Test. Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.	y order opti ifications to	ons in FY97∹ performance	98-99. FY97 ci	FY97 contract has First Article Test. ards, specification changes will be rec	irst Article ⊺ anges will b	Fest. Je requirec	
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MANUFACTURERS NAME         RATER DOTAL         ADD Form 2445, JUL 87         RATION         ADD Form 2445, JUL 87         COMBINED FOR 5 AND 10KW PRODUCTION SIMILAR TO BAY INVENTING BLIDES FOR 5 AND 10KW PRODUCTION SIMILAR TO BAY AFTER DOTAL AFTER DOTAL AFTER TIME         ANNUFACTURING TOTAL AFTER TIME         AFTER AFTER TIME         AFTER AFTER TIME         AFTER AFTER AFTER TIME         AFTER AFTER AFTER TIME         AFTER AFTER AFTER TIME         AFTER AFTER AFTER TIME         AFTER AFTER AFTER TIME         AFTER AFTER AFTER AFTER TIME         AFTER AF	1	L										PROD	UCTION					-	PRODUCTION	ONLEAD	TIME	-		REMARK		E PRODUK	CTION R	ATES NO	TED AR	
& LOCATION         MIN         1-8-5 (MAX)         MAX         AFTER DDAY         APTER DDAY         AFTER DDAY         AFTER DDAY         AFTER DDAY         AFTER DDAY         AFTER TIME         TOTAL         AFTER TIME         <	_	1,	MAR	VUFACTU	RERS NAN	E S						Æ	TES		₹	NTHS TO						*		COMBINE	D FOR 5 A	IND 10KW	V PRODU	CTION SI	MILARI	0
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	BUDGET	SET ITEM JU	JUSTIFICATION SHEET	TIONSH	EET		DATE FEBRUARY 1995	NARY 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	SNCLATURE		() 	
Other Support Followent					GENERALOR SEL TURW 196	K SE! TUKV	5 5 7	
								~ _
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY	307	0	143	244	242	234	620	1134
	4.9	.2	1.7	2.9	3.2	3.2	7.9	14.3
DESCRIPTION: 10 KW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60 HZ and 400 HZ.	Diesel Fueled, T	actical Quiet	Generator, 60	0 HZ and 400	HZ.			
JUSTIFICATION: This program will replace existing generator sets with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increased infrared signal suppression. These generators are components of the power unit/power plant production program. These assets are required for materiel fielding, and replacement of gasoline fueled generators supporting the following systems:	nerator sets with ulse protection, a ts are required fo	assets that in ind increased or materiel fie	crease safety I infrared sign Iding, and rep	and survival al suppressio olacement of	bility by: redu on. These ger gasoline fuel	icing operatir nerators are o ed generators	ng noise levels components ol s supporting th	r the
MISSILE/AIR DEFENSE SYSTEMS:	SUPPORT SYSTEMS:	/STEMS:			COMMUNICATION SYSTEMS:	ATION SYST	EMS:	
- Hawk Missile Systems	- Helicopters (AH-64, AH-1)	(AH-64, AH-	<del>1</del>		- MSE			
- Tow Missile System - Patriot Missile System	<ul> <li>Laundry Units</li> <li>Command and</li> </ul>	<ul> <li>Laundry Units</li> <li>Command and Control Centers</li> </ul>	enters		- Radio Tern - Radio Rela	- Radio Terminal Systems (BCR 11) - Radio Relay/Repeater Systems	s (BCR 11) systems	
- Avenger					- Satellite Co	- Satellite Communication Systems	n Systems	
							2	
NOTE: Due to the component commonality in the 5 and 10 KW, they are procured under the same contract and produced on same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.	i 10 KW, they are independent, bu	procured un	ider the same nsidered in to	contract and tal to maintal	I produced on in program in	same produ legrity.	ction line.	
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DD-COMP(AR) 1092	WE	APON SYS	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS E	XHIBIT			DATE FEBRUARY 1995	UARY 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE GENERATOR SET 10KW	NCLATURE R SET 10KM	1		
		MANUFAC	MANUFACTURER NAME	NO	WEAPON MODEL/SERIES/POPULAR NAME	:USERIES/POF	ULAR NAME		
				5		TQG			
Weapon System Cost Elements	IDENT CODE (	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97	Quantity
1. Item Hardware			307 3656		00		143		244
2. Engineering Government			714		112		127		138
3. Data			177		50		35		75
4. Engineering Change Orders			208		25		22	•	4-
5. Acceptance Testing	<del></del>		158		0		0		53
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REPORTS CONTROL SYMBOL	OL SYMBOL									
DD-COMP(AR) 1092	12	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	<b><i>FORY AND</i></b>	PLANNING E	XHIBIT		DATE FEBRUARY 1995	<b>3RUARY</b>	1995
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3 Other Support Equipment	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NO GENERA	P-1 ITEM NOMENCLATURE GENERATOR SET 10KW TQG	KW TQG				
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
1994	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	Jul 96	307	11,909	YES		•
1996	Fermont, Bridgeport, CT (M529)10/60KW	C/FP REQ 3 (2)	ATCOM	Jan-96	Jan-97	. 143	10,566	Yes	Š	
1997	TBS (M529) 10/60KW (M565) 10/400KW	C/FP REQ 3 (1)	ATCOM ATCOM	Jan-97 Jan-97	Jul-98 Jul-98	226	10,884 13,888	° ° °	Yes	Mar 96 Mar 96
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#### REMARKS

FY94 is a new 3-year requirements contract with delivery order options in FY94-95-96. FY94 contract has First Article Test. FY97 is a new 3-year requirements contract with delivery order options in FY97-98-99. FY97 contract has Frst Article Test. Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.

Due to acquisition reform guidelines, conversion of military specifications to performance standards, specification changes will be required prior to issuance of follow-on procurement in 1997.

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REPORTS CONTROL SYMBOL	BUDGET	JOGET ITEM JUSTIFICATION SHEET	STIFICA	TION SH	E		DATE FEBRUARY 1995	<b>UARY 1995</b>
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ENCLATURE			
Other Procurement: Army 3					; ; ;	i i		
Other Support Equipment				GENERATO	GENERATOR SETS 15 KW TQG	W TQG		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	184	14	173	0	49	51	197	294
COST (IN MILLIONS)	4.1	6.0	2.7	0.3	1.0	1.2	3.2	4.8

DESCRIPTION: 15 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:

## MISSILE/AIR DEFENSE SYSTEMS

- Hawk Missile
  - Tow Missile
- Patriot Missile
  - Avenger

### COMMUNICATION SYSTEMS

- Mobile Subscriber Equipment
- Radio Relay/Repeater Systems
- Satellite Communication Systems

### SUPPORT SYSTEMS - Water Purification Systems

- Helicopters - Modular Print System
  - Medical Systems
- Command and Control Centers

NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line. Engineering support cost for the TQG programs are not independent, but must be considered in the total to maintain program integrity.

		P-1 SHOPPING LIST		Page	Jo	Pages
DD Form 2454, Jul 88			UNCLASSIFIED			
	ITEM NO 151	PAGE NO 18 OF 45		ũ	<b>EXHIBIT P-40</b>	<del>0</del>

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092		WEAPON S	WEAPON SYSTEM COST ANALYSIS EXHIBIT	NALYSIS EXI	HBIT		DAT	j Date February 1995	1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE GENERATOR 15KW	CLATURE 1 5KW			
		MANUF. PLANT CITY	MANUFACTURER NAME	2	WEAPON MODEL/SERIES/POPULAR NAME TQG	SERIES/POPULAR TQG	R NAME		
Weapon System Cost Elements	T PER	7675		TOTAL COST	TOTAL COST IN THOUSANDS OF DOLLARS	OF DOLLARS			
	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST
1. Item Hardware	∢		184		14 202		173		00
2. Engineering Government			642		217		114		. 130
3. Eng Change Orders			332		200		98		21
4. Acceptance Testing			443		200		0		0
6. Data			212		100		31		114
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TOTAL			4,046	<u> </u>	919		2659		265
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		ITEM NO 151		PAGE NO 19 OF 45	25	UNCLASSIFIED	SIFIED	EXHIBIT P-6	T P-6

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092 APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment COST ELEMENT/ FISCAL YEAR AND LOCA	/BOL	BUDGE.	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING F	FXHIBIT		DATE FEBRUARY 1995	3RUARY 1	005
APPROPRIATION /BUDGE Other Procurement: / Other Support Equipm Other Support Equipm COST ELEMENT/ C										990
COST ELEMENT/ C	ET ACTIVITY Army 3			GENERAT	P-1 ITEM NOMENCLATURE GENERATOR SET 15KW TQG	(W TQG				
	nent									)
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
-	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	CUANTITY	COST	AVAILABLE	REV REQ'D	WHEN
	AND LOCATION	1 1		1100					1	
1994 Ferm (M54	Fermont, Bridgeport, CT (M549) 15/60KW	C/FP REQ 3 (1)	ATCOM	JAN -95	30L-96	88	12,785	Yes		
(M52	(M526) 15/400	(1)	ATCOM	JAN-95	96-JUL	100	14,432	Yes		
	TO proposition to	C/ED DE() 3								
1995 Ferm (M52	(M526) 15/400KW		ATCOM	Sep 95	Nov-96	14	14,429	Yes	ê 2	
1996 Ferm	Fermont, Bridgeport, CT (M549) 15/60KW	C/FP REQ 3	ATCOM	Jan-96	Jan-97	173	14,035	Yes	Š	
	-									
REMARKS Fy94 Unit	4 is a new 3-year req costs changed to ref	luirements cont flect actual proc	Fy94 is a new 3-year requirements contract with delivery order options in FY94-95-95. FY94 contract has First Anicle Test Unit costs changed to reflect actual production unit costs on 1992 contract and subsequent inflation.	ptions in FY 2 contract a	94-95-96. Find subsequer	Y94 contract ne nt inflation.	as First Artick	e lest.		
			P1 SHOPPING LIST	3 LIST			i i i i i i i i i i i i i i i i i i i	Page	jo	Pages
		ITEM NO 151		PAGE NO 20 OF 45	) OF 45			Ш	EXHIBIT P-5A	-5A

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REPORTS CONTROL SYMBOL								
DD-COMP(AR) 1092	BUDGET	DGET ITEM JUSTIFICATION SHEET	STIFICA	TION SH	EET		DATE FEBRUARY 1995	<b>JARY 1995</b>
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	ENCLATURE			
Other Procurement: Army 3								
Other Support Equipment				GENERATO	GENERATOR SETS 30 KW TQG	W Tag		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	150	337	147	0	60	50	161	231
COST (IN MILLIONS)	3.8	6.1	2.5	0.3	1.3	1.1	3.0	4.3

DESCRIPTION: 30 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ

JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signature suppression. Some of these generators are components of the power unit/power plant production program, and are required for materiel fielding and sustainment support on the following systems:

MISSILE/AIR DEFENSE SYSTEMS

- Hawk Missile

- Tow Missile

- Patriot Missile

- Avenger

COMMUNICATION SYSTEMS

- Radio Relay/Repeater Systems - Mobile Subscriber Equipment

- Satellite Communication Systems

- Water Purification Systems SUPPORT SYSTEMS

- Modular Print System - Helicopters

- Medical Systems

**Command and Control Centers** 

NOTE: Due to component commonality the 30&60kW are procured under the same contract and produced on the same assembly line.

Engineering support cost for the TQG programs are not independent but must be considered in the total to maintain program integrity. The same is also true for the 15kW set for either the 30&60kW or the 5&10kW TQG assembly line.

		P-1 SHOPPING LIST		Page of Pages
DD Form 2454, Jul 88			UNCLASSIFIED	
	ITEM NO 151	PAGE NO 22 OF 45		EXHIBIT P-40

Pages

APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3		WEAPON SY	4 000 CATE				•		-	
Other Procurement: Army 3			WEAPON SYSTEM COST ANALYSIS EXHIBIT	NALYSIS EXP	HIBIT P.1 ITEM NOMENCY ATLIBE	ATIBE		DATE FEBRUARY 1995	UARY 1995	
וופן סתקטסוג ביקעוטווופונו					GENERATOR 30KW	30KW				
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION	7	WEAPON MODEL/SERIES/POPULAR NAME TOG	/SERIES/POPULAF	R NAME			
Wespon System Cost Elements	IDENT	FY94 UNIT COST	Quantity TOTAL COST	TOTAL COST FY95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY95 Quentity FY96 NIT COST TOTAL COST UNIT COST	OF DOLLARS FY96 UNIT COST	Quantity TOTAL COST	FY97 UNIT COST	Quantity TOTAL COST	
1. Item Hardware	⋖	***************************************	150		337		147		00	
2. Engineering Government	· ·		232		88		85		130	(
3. Eng Change Orders	-	•	116		88		43		21	
4. Acceptance Testing	<del>-</del>		538		0		0			
5. Data			112		0		0		411	
	·									
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TOTAL	<del></del>		3,759		6,147		2481		265	19
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CONTRACTOR   METHOD   CONTRACTED   AWARD   FIRST   CONTRACTOR   METHOD   CONTRACTOR   BY   DATE   DELIVERY   CUANTITY   COST   Now   REO'D   REO'D   REO	APPROPRIATION / Other Procurer Other Support E	BUDGET ACTIVITY Ient: Army 3 Equipment			P-1 ITEM NOI GENERAT	MENCLATURE OR SET 30K	W TQG			_	
CONTRACTOR   METHOD   CONTRACTED   AWARD   FIRST   COST   AWARLALE   REV			CONTRACT			DATE OF			SPECS	SPEC	IF YES,
Fermont, Bridgeport, CT   CIFP REQ 3	COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
Fermont, Bridgeport, CT (C/FP REQ 3 ATCOM Jan 95 Jul 96 150 18,407 Yes (4) Fermont, Bridgeport, CT (C/FP REQ 3 ATCOM Sep 95 Nov 96 337 17,718 Yes No Fermont, Bridgeport, CT (C/FP REQ 3 ATCOM Jan-96 Jan-97 147 16,007 Yes No Fermont, Bridgeport, CT (C/FP REQ 3 ATCOM Jan-96 Jan-97 147 16,007 Yes No Prog 4 is a new 3-year requirements type contract with delivery order options in FY94-95-96.	FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
Fermont, Bridgeport, CT	1994	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (1)	ATCOM	Jan 95	96 Inf	150	18,407			
Fermont, Bridgeport, CT   C/FP REQ 3	1995	Fermont, Bridgeport, CT (M532) 30/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	337	17,718		ž	
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of Internal 151 Page NOT EXHIBIT P-54	1996	Fermont, Bridgeport, CT (M532) 30/60KW		ATCOM	Jan-96	Jan-97	147	16,007		O <mark>N</mark>	
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151 PAGE NO 24 OF 45 EXHIBIT P-56											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  P1 SHOPPING LIST  DINCLASSIFIED  EXHIBIT P-5,  EXHIBIT P-5,											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151 PAGE NO 24 OF 45		,									
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  PH SHOPPING LIST  UNCLASSIFIED  EXHIBIT P-54  EXHIBIT P-54											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151  PAGE NO 24 OF 45  UNCLASSIFIED  EXHIBIT P-54											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151  PAGE NO 24 OF 45  UNCLASSIFIED EXHIBIT P-5/											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151  PAGE NO 24 OF 45  UNCLASSIFIED  EXHIBIT P-5/											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151  PAGE NO 24 OF 45  EXHIBIT P-5/											
FY94 is a new 3-year requirements type contract with delivery order options in FY94-95-96.  Page of ITEM NO 151  PAGE NO 24 OF 45											
Page of UNCLASSIFIED EXHIBIT P-5/	REMARKS	FY94 is a new 3-year req	quirements type	contract with delivery on	der options	in FY94-95-9	ō.				
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	ER.	MONT, BF	FERMONT, BRIDGEPORT, CT	RT, CT				75	5 240		750		8		PR	PRIOR A	AFTER		TIME	ш			794 8W	FY94 award in Jan 95. All deliveries	5. All de	liveries					
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		UNCLASSIFIED	IFIED					
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	BUDGET	ITEM	JUSTIFICA	ATIONSH	SHEET		DATE FEB	DATE FEBRUARY 1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Support Equipment				GENERATO	GENERATOR SETS 60 KW TQG	W TQG		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY	132	196	103	0	32	50	66	209
COST (IN MILLIONS)	4.1	4.3	2.0	0.3	1.0	1.5	2.2	4.3
DESCRIPTION: 60 KW Generator Set, Skid Mounted, Tactical Quiet Generator, 60HZ and 400 HZ  JUSTIFICATION: This program will replace existing overaged generator sets, with assets that increase safety and survivability by: reducing operating noise levels, reducing weight, provide high attitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/power plant production program, and are required for material fielding and sustainment support on the following systems:	actical Quiet Ge aged generator etic pulse prote	enerator, 60H sets, with as ection, and in	iet Generator, 60HZ and 400 HZ erator sets, with assets that increase safety and survivability by: reducing operating noise protection, and increase infrared signal suppression. These generators are components for materiel fielding and sustainment support on the following systems:	ease safety a d signal supp	nd survivabili oression. The	ty by: reduci se generator	ing operating s are compor	noise
MISSILE/AIR DEFENSE SYSTEMS - Hawk Missile - Patriot Missile - Avenger	COMMUNICA - Mobile Sub - Radio Rela - Satellite Co	COMMUNICATION SYSTEMS - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems	EMS oment ystems i Systems		SUPPORT SYSTEMS - Water Purification Sy: - Helicopters - Modular Print System - Medical Systems	SUPPORT SYSTEMS - Water Purification Systems - Helicopters - Modular Print System - Medical Systems - Command and Control Centers	ems Centers	
NOTE: Due to component commonality the 15,30,60kW are procured under the same contract and produced on the same assembly line.  Engineering support cost for the 15, 30, 60KW programs are not independent but must be considered in the total to maintain pro	are procured u	nder the sam ot independe	red under the same contract and produced on the same assembly line. are not independent but must be considered in the total to maintain program integrily.	d produced or considered	n the same as in the total to	ssembly line. maintain pro	gram integrit	· ~- ×
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		P-1	P-1 SHOPPING LIST	IST			Page	of Pages
DD Form 2454, Jul 88	ITEM NO 151	151	PAGE NO 26	OF 45	ONCLA	UNCLASSIFIED	EXH	EXHIBIT P-40

REPORTS CONTROL SYMBOL				UNCLASSIFIED					
DD-COMP(AR) 1092		WEAPON S	WEAPON SYSTEM COST ANALYSIS EXHIBIT	ANALYSIS EX	HBIT			DATE FEBRUARY 1995	ARY 1995
APPROPRIATION /BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE	CLATURE			
Other Procurement: Army 3 Other Support Equipment					GENERATOR 60 KW	60 KW			
		MANUI PLANT CIT	MANUFACTURER NAME PLANT CITY/STATE LOCATION	3	WEAPON MODEL/SERIES/POPULAR NAME TQG	/SERIES/POPULA	R NAME		
Weapon System Cost Elements	IDENT	FY94	Quantity	TOTAL COS	TOTAL COST IN THOUSANDS OF DOLLARS FY95 Quantity FY96	OF DOLLARS FY96	Quantity	FY97	Quantity
	Š	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1. Item Hardware	⋖		132		196 3496		103		
2. Engineering Government	<del></del> -		363		300		53		130
3. Eng Change Orders			258		200		30		
4. Acceptance Testing			772		200		0		
5. Data			312		110		-		114
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TOTAL			4,051		4,306		1987		330
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DD-COMP(AR) 1092	OL SYMBOL 2	BUDGE	BUDGET PROCUREMENT HIST	ORY AND	MENT HISTORY AND PLANNING EXHIBIT	XHIBIT		DATE FEBRUARY 1995	3RUARY	1995
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3 Other Support Equipment	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NO GENERAT	P-1 ITEM NOMENCLATURE GENERATOR SET 60KW TQG	W TQG				
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
1994	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3	ATCOM	Jan 95	96-Inf	70	16,553	Yes	-	
	(M531) 60/400KW	(£)	ATCOM	Jan-95	96-Jnf	62	19,154	Yes	•	
1995	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (2)	ATCOM	Sep 95	Nov 96	196	17,841	Yes		
1996	Fermont, Bridgeport, CT (M532) 60/60KW	C/FP REQ 3 (3)	ATCOM	Jan-96	May-97	103	18,377	Yes		
						:				
										r
REMARKS	FY94 is a new 3-year requirements type contract with	quirements type	contract with delivery on	der options	in FY94-95-96	n delivery order options in FY94-95-96. FY94 contract has First Article Test,	ct has First A	Article Test,		
			P1 SHOPPING LIST	: LIST			i i	Page	of	Pages
		ITEM NO 151	151	PAGE 28 OF 45	\$	UNCLASSIFIED	FIED	Û	EXHIBIT P-5A	5A

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₹ 0	PROP.	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3	Army 3	ΥΙΙΛ								P.1 ITE	P-1 ITEM NOMENCLATURE	KCLATUR!	נוי						
<u> </u>	her S	Other Support Equipment	pment											GENE	GENERATOR SETS 60KW TQG	=TS 60k	(W TQG			`	
	တ		ACCEP	BAL	FISCAL YEAR	8					FISCAL VEAD		67					e c			-
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_		MANUE	MANUFACTURERS NAME	RS NAM	ш			RATES		MONTHS TO	01 81										
<b>V</b>			& LOCATION	NOI						REACH MAX	MAX		ADMIN LEAD TIME	AD TIME		-	PROL	PRODUCTION RATES ARE COMBINED FOR THE	RE COMBIN	ED FOR THE	
<u>ပ</u>							Z	1-8-5	MAX	AFTER D DAY	) DAY				MANUFACTURING		TOTAL 15, 30	15. 30. 60KW FY94 AWARD JAN95	RD.IAN95	•	
		FERMONT, BRIDGEPORT, CT	DGEPOR	T, CT			75	240	750		8		PRIOR A	AFTER	TIME				) )		
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	8	DD Form 2445, JUL 87	UL 87						P-1 SHC	P-1 SHOPPING LIST	LIST							Page	8	Pages	-
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Packers   Pack	PRODUCTION S HEET P-1 ITEM NOMENCLATURE PRODUCTION OF POWER UNITS AND POWER PLANTS FY98 FY99 FY00 FY0  262 268 266 687 1149  4.4 4.4 4.4 4.4 11.8 21.7  Electronic components and raw materiel are procured by depot. completed when Tactlcal Quiet Generators, procured by ea trailer interface. Power Plants consist of 2 ea TQG mounted de greater reliability, quieter operation, extended mean-time-unch Rocket Systems  by the configurations:	EET  VICLATURE  N OF POWER UNITS AND POWER PLAN  268 266 687 1  4.4 4.4 11.8 2  ents and raw materiel are procured by depot.  Ctical Quiet Generators, procured by Power Plants consist of 2 ea TQG mounted quieter operation, extended mean-time-s	DATE FEBRING POWER PROCURED BY GOOLING BY COCURED BY CO	FEBRUARY 1995 WER PLANTS  1149 8 21.7 d by depot. by G mounted n-time-
FY95 FY96  670 0  4.7 0.1  These assemblies are completed from TACOM. Electron assets designed to provide greaters.  - Multiple Launch R - Computer System - Avenger - Satellite Commun - Battlefield Commun - Battlefield Commun	S H E E T  VOMENCLATURE  CTION OF POWE  268  268  4.4  And  Tactical Quiet Gerance. Power Plants  bility, quieter opera  systems	FY99 A.4 materiel are prenerators, pro	D POWER P FY00 687 11.8 rocured by docured b	UARY 1995 PLANTS FY01 1149 21.7 epot.
FY95 FY96  670 0  4.7 0.1  These assemblies are compiles are compiles are compiled as a sea train assets designed to provide greatests.  - Multiple Launch R - Computer System - Avenger - Satellite Commun - Battlefield Commun	CTION OF POWE  CTION OF POWE  268  4.4  And  And  And  And  And  And  And  An	FY99 266 4.4 materiel are prenerators, pro	FY00 687 11.8 rocured by docured	
FY95 FY96  670 0  4.7 0.1  procured from TACOM. Electron These assemblies are completed as a semble on 1 ea train decompleted from TACOM. Electron These assemblies are completed to mounted on 1 ea train decompleted from these power unit/power plant contractions.  - Multiple Launch Response to these power unit/power plant contractions.  - Avenger - Satellite Community - Satellite Community - Battlefield Community.	TION OF POWE  268 4.4  And and raw non Tactical Quiet Garden.  bility, quieter operalions:  systems	FY99 266 4.4 materiel are prenerators, pro	FY00 687 11.8 rocured by docured by dea TQG mou	
FY95 FY9  670 0.1  4.7 0.1  These assemblies are of the a TQG mounted on 1 factors assets designed to provid assets.  - Multiple Lau - Computer S - Avenger - Satellite Cor - Satellite Cor - Battlefield C	T FY98  268  4.4  Thonents and raw n and Tax n are. Power Plants are. Power Plants are. Power Plants systems	FY99 266 4.4 materiel are prenerators, pro	687 11.8 rocured by do	l l l od st
procured from TACOM. These assemblies are of 1 ea TQG mounted on 1 ed.  These power unit/power p these power unit/power p - Avenger - Satellite Cor - Battlefield C	268 4.4  mponents and raw n ace. Power Plants ace. Power Plants bility, quieter opera stems	4.4 materiel are prenerators, pro	11.8 rocured by docured by as TQG mou	l l ode
procured from TACOM. These assemblies are of 1 ea TQG mounted on 1 ed.  assets designed to provid assets.  Multiple Lau. Computer S. Avenger Satellite Cor Battlefield C.	mponents and raw nan Tactical Quiet Geace. Power Plants billity, quieter opera	materiel are prenerators, pros consist of 2 e	rocured by docured by docured by ea TQG moud mean-time	nte
procured from TACOM.  These assemblies are of the a TQG mounted on 1 for a sets designed to provid assets.  Multiple Lau.  - Multiple Lau.  - Avenger  - Satellite Cor  - Battlefield C	nponents and raw nen Tactical Quiet Geace. Power Plants bility, quieter operalons:	materiel are prenerators, prossconsist of 2 eation, extended	rocured by docured by docured by ea TQG moud moud mean-time.	epot.
	bility, quieter opera ions: /stems	ıtion, extendec	d mean-time	
these powe	ions: /stems svstems			
<ul> <li>Multiple Launch Rocket S</li> <li>Computer Systems</li> <li>Avenger</li> <li>Satellite Communication 3</li> <li>Battlefield Communication 3</li> </ul>	stems		·	
	is Systems (BCR 11	<del>.</del>		<del></del>
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REPORTS CONTROL SYMBOL				UNCLASSIFIED					
APPROPRIATION (91100000000000000000000000000000000000		VEAPON SY	WEAPON SYSTEM COST ANALYSIS	ANALYSIS E	EXHIBIT			DATE FER	DATE FERRITARY 1006
Other Support Equipment					P-1 ITEM NOMENCLATURE PRODUCTION OF PC	ENCLATURE ON OF POV	P-1 ITEM NOMENCLATURE PRODUCTION OF POWER UNITS AND POWER PLANTS	ND POWER	PLANTS
		MANUF	MANUFACTURER NAME PLANT CITY/STATE LOCATION	NO	WEAPON MOD	WEAPON MODEL/SERIES/POPULAR NAME	ULAR NAME		
					·	Tag			
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity	TOTAL COST FY 95	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96	OF DOLLARS FY 96	Quantity	FY 97	Quantity
1. Item Hardware	. <b>4</b>		151		670 4337	ONI COS	O O O	UNIT COST	TOTAL COST 262 4118
2. Engineering Government			700		145		73		100
3. Data			009		83		o		, vo
4. Engineering Change Orders			700		50		Č		3 6
5. Acceptance Testing			534		20		0		9 %
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TOTAL			4242		4665		73	-	4497
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REPORTS CONTROL SYMBOL	OL SYMBOL	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	ORY AND	PLANNING E	XHIBIT		DATE FEBRUARY 1995	BRUARY 1	995
APPROPRIATION /	APPROPRIATION /BUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE		-			
Other Procurement: Army 3 Other Support Equipment	lent: Army 3 Equipment			PRODUCT	ION OF PO	PRODUCTION OF POWER UNITS AND POWER PLANTS	IND POWER	PLANTS		<u> </u>
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВҮ	DATE	DELIVERY	QUANTITY	COST	MOM	REQ'D	AVAILABLE
1994	Tobyhanna A.D. Tobyhanna, Pa (M510) PU-806 Production Trailer M200A1	WR	ATCOM	Mar-94	Sep-95	31	14,528	Yes		
	(R627) PU-797 Production Trailer M116A3	N R	ATCOM	Mar-94	Sep-95	100	9,353	Yes		
,	(M506) AN/MJQ-42 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	18,507	Yes		
	(M548) AN/MJQ-43 Production Trailer M116A3	WR	ATCOM	Mar-94	Sep-95	10	13,688	Yes		
REMARKS Unit cost includ	REMARKS Unit cost includes for production includes: depot procurement of electrical components and raw materiels, and cost of trailer. manufacturing the power units/power plants integration packages, and integration of components and anciliary equipment into the completed pu/pp.	s: depot procur	ement of electrical composackages, and integration	onents and of compon	raw materiels lents and anc	, and cost of tr	ailer. nt into the cor	npleted pu/	da da	6.0
			P1 SHOPPING LIST	S LIST				Page	Jo	Pages
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DD-COMP(AR) 1092	92	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING F	XHIBIT		DATE FEE	FEBRUARY 1995	1995
APPROPRIATION /BUDGET ACTIV	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	Equipment			PRODUCT	TION OF PC	PRODUCTION OF POWER UNITS AND POWER PLANTS	IND POWER	R PLANTS		
		CONTRACT			DATE OF			SPECS	SPEC	IF YES.
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		UNIT	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	MON	REO'D	AVAII ABI E
1995	Tobyhanna A.D. Tobyhanna, Pa (M591) PU-798 Production Trailer M116A3	WR	ATCOM	Mar-95	Sep 96	331	6,353	Yes		
	(NYA) PU-801 Production Trailer M103A3	WR	ATCOM	Mar-95	Sep 96	38	6,284	Yes		
	(M500) PU-802 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96		6,284	Yes		
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REMARKS										

Unit cost for production includes: depot procurement of electrical components and raw materiels,

manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY 95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).

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DD-COMP(AR) 1092	32	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING E	хнівіт		DATE FEE	FEBRUARY 1995	1995
APPROPRIATION /BUDGET ACTIV Other Procurement: Army 3	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	Equipment		-	PRODUCT	TION OF PO	PRODUCTION OF POWER UNITS AND POWER PLANTS	IND POWER	R PLANTS		
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	BY	DATE	DELIVERY	QUANTITY	COST	MON	REQ'D	AVAILABLE
1895	Tobyhanna A.D. Tobyhanna, Pa (M543) PU-803 Production Trailer M200A1	WR	ATCOM	Mar-95	Sep 96	121	6,153	Yes		
	(M519) AN/MJQ-40 Production Trailer M200A1(2)	W.	ATCOM	Mar-95	Sep 96	10	18,303	Yes		
	(M509) PU-805 Production Trailer M200A1	N R	ATCOM	Mar-95	Sep 96	9	6,153	Yes		
	(M563) AN/MJQ-39 Production Trailer M200A1(2)	A R	ATCOM	Mar-95	Sep 96		18,303	Yes	,	
	(M563) PU-800 Production	WR	ATCOM	Mar-95	Sep 96	<del>-</del>	5,685	Yes		
REMARKS										
OCCUPATION OF THE PROPERTY OF										

manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed pu/pp & trailer cost. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97). Unit cost for production includes: depot procurement of electrical components and raw materiels,

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REPORTS CONTROL SYMBOL	OL SYMBOL			UNCLASSIFIED	Q:					
DD-COMP(AR) 1092 APPROPRIATION /B	DD-COMP(AR) 1092 APPROPRIATION /BUDGET ACTIVITY	BUDGET PRO	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBI	AND PLANI	ND PLANNING EXHIBI			DATE	DATE FEBRUARY 1995	YY 1995
Other Procurement: Army 3 Other Support Equipment	nent: Army 3 Equipment			Production	n of Power Un	Production of Power Units and Power Plants	Piants			
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF FIRST		LINU	SPECS AVAILABLE	SPEC REV	IF YES, WHEN
1997	TBS (M506) AN/MJQ-42 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	QUANTITY	14,703	Now	REQ'D Yes	AVAILABLE Mar 96
	(M548) AN/MJQ-43 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	ις.	20,900	°N	Yes	Mar 96
	(R627) PU-797 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	36	11,395	o Z	Yes	Mar 96
	(M541) AN/MJQ-35 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	4	20,500	S N	Yes	Mar 96
·	(M662) AN/MJQ-36 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	<del>**</del>	23,150	o Z	Yes	Mar 96
REMARKS	FY97 Power Unit/Power Plant Program will award as an Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of H	Flant Program v rrent with the TQ g includes testing	vill award as an option or G Generators. //validation of High Mobil	n the TQG C	option on the TQG Generator contracts.	option on the TQG Generator contracts. igh Mobility Trailer for PU/PP application (Production in FY97).	ction in FY97)			
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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HIST	ORY AND	MENT HISTORY AND PLANNING EXHIBIT	XHIBIT		DATE FEE	FEBRUARY 1995	1995
APPROPRIATION /BUDGET ACTIV	APPROPRIATION /BUDGET ACTIVITY	٠		P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	ent. Anny 3 Equipment			Production	າ of Power Un	Production of Power Units and Power Plants	Plants			
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	AVAILABLE
1997	TBS (M590) AN/MJQ-37 Production Trailer M103A3	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	46	23,100	No	Yes	Mar 96
	(M570) PU-799 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	7	23,100	o Z	Yes	Mar 96
. ,	(M500) PU-802 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	38	13,700	o N	Yes	Mar 96
	(M563) AN/MJQ-39 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	N	14,000	S Z	Yes	Mar 96
	(M543) PU-803 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	01	14,700	Š	Yes	Mar 96
REMARKS	FY97 Power Unit/Power Plant Program will award as an Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of	Plant Program rent with the TG j includes testir	FY97 Power Unit/Power Plant Program will award as an option on the TQG Generator contracts. Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).	n the TQG	Generator cor	ntracts.	ction in FY97			
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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	TORY AND	PLANNING	EXHIBIT		DATE FE	FERRIJARY 1995	1005
APPROPRIATION /BUDGET ACTIV	APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					Coo
Other Support Equipment	Equipment			Production	of Power Un	Production of Power Units and Power Plants	Plants			
		CONTRACT			DATEOF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST		TINO	AVAILABLE	REV	WHEN
1997	TBS	۵ - ا ـ ا		DAIE	DELIVERY	QUANIIIY	COST	MON	REQ'D	AVAILABLE
50	(M519) AN/MJQ-40 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	10	14,000	°Z	Yes	Mar 96
	(M509) PU-805 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	<del>1.</del>	13,800	o N	Yes	Mar 96
	(M511) AN/MJQ-41 Production Trailer M200A1(2)	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	ю	33,000	°Z	Yes	Mar 96
	(M510) PU-806 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	<b>છ</b>	13,500	o N	Yes	Mar 96
	(M595) PU-804 Production Trailer M200A1	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	7	11,500	°Z	Yes	Mar 96
REMARKS	FY97 Power Unit/Power Plant Program will award as an Deliveries will be concurrent with the TQG Generators.	Plant Program ent with the TC		the TQG G	senerator con	tracts.				
	i so acceptance testing includes testing/validation of			ity I railer fo /	or PU/PP app	Hign Mobility Trailer for PU/PP application (Production in FY97).	ction in FY97	Ċ		the Alexander
			P1 SHOPPING LIST	LIST				Page	Jo	Pages
		ITEM NO 151		P NO 37 OF 45	OF 45	UNCLASSIFIED	FIED	EX	EXHIBIT	

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SAMPLE CONTROL SYMBOL	OBWAS		ו	UNCLASSIFIED	C					
DD-COMP(AR) 1092	or stimbor	BUDGE	BUDGET PROCUREMENT HIST	TORY AND	MENT HISTORY AND PLANNING EXHIBIT	XHIBIT		DATE FEE	FEBRUARY 1995	995
APPROPRIATION /	APPROPRIATION /BUDGET ACTIVITY			P-1 ITEM NO	P-1 ITEM NOMENCLATURE					
Other Support Equipment	eni: Amy s Equipment			Production	of Power Un	Production of Power Units and Power Plants	Plants			~
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	ì	TINO	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& IYPE	BY	UAIE	UELIVERT	COVENIE	1000	MON	אבעה	AVAILABLE
)	(R591) PU-798 Production Trailer HMT	C/FFP/3 (1)	ATCOM	Jan 97	Sep 98	55	11,000	S Z	Yes	Mar 96
DEMADIVE	EVO7 Dower   Init/Dower	Plant Program	EXOT Dower   Init/Dower Plant Program will award as an option on the TOG Generator contracts.	n the TOG	Generator cor	ntracts.				
	Deliveries will be concurrent with the TQG Generators. FY95 acceptance testing includes testing/validation of I	rent with the T g includes testi	Deliveries will be concurrent with the TQG Generators.  FY95 acceptance testing includes testing/validation of High Mobility Trailer for PU/PP application (Production in FY97).	ility Trailer f	or PU/PP app	olication (Produ	uction in FY97	. <del>(</del>		
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		ITEM NO 151		PAGE NO 38 OF 45	3 OF 45	ONOLASSITIED		E	EXHIBIT P-5A	5A

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밁	Ö	DD-COMP(AR) 1092	392							ROL	PRODUCTION	LON	S	CHEDULE	ULE											Ω	DATE FEBRUARY 1995	FEBF	<b>3UAF</b>	₹ 19	95		
<b>₹ 0 0</b>	PROPI her Pi	APPROPRIATION / RUDGET ACT Other Procurement: Army 3 Other Support Equipment	raubal nent: A Equipm	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	<u>}</u>												P-1 ITEM NOMENCLATURE DEPOT MANUFACTURE OF POWER UNITS AND POWER PLANTS	T MA	NOLATI	ACTL	JRE C	)F P(	OWE	2 N	ITS	QN.	Powi	R PI	AN	Ø	,		T .
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-	10B	YHANN	IA ARN	<b>TOBYHANNA ARMY DEPOT</b>	JT PA				$  \cdot  $	75	200		12		8		ă	PRIOR	AFTER		TIME	, u		AFTER									
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262   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    282   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    282   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    282   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    284   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    285   CCI   NOV   DEC   JAN   FEB   MARK APR   MAY   JUN   JUL   ALIG   SEP   CCI   NOV   DEC   JAN    286   CCI   NOV   DEC   JAN   TAN	Ēφ	CKIS COMP(	(AR) 1092	TMBOL.				PROL	JUCT		CHED	ULE								DATE F	EBRUA	ARY 199	95	
SEP   BAL   FISCAL YEAR   98   FISCAL YEAR   98   CALE     OCT	٦	ROPRI	ATION /BUD	GET ACTIVI	<u>L</u>								P-1 ITE	M NOMEN	ICLATURE									
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Name		S		ACCEP	BAL	FISCAL YEAR					<u>"</u>	SCAL YEAR		8				SCAL YEA		8			1	<u> </u>
No.   FY   GTY   1 OCT   1 OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAY JUN   JUL   AUG SEP   OCT   NOV DEC  JAN   FEB   MARR APPR   MAX AFTER DAY	14	i	U/M EA		DUE		Ŀ						_											; <del>-</del>
V   FY   QTY   1 OCT   1 OCT   OCT   NOV DEC  JAN   FEB   MAR APR   MAY JUN JUL   AUG SEP   OCT   NOV DEC  JAN	¥	œ			AS OF	97	CALENDA	IR YEAR	88					IDAR YEAR	ı		}		SALE	NOAR YEA	2	8		ш
A 97 262 262 100 62 100	ပ	-+		1 OCT	1 OCT	OCT NOV DE	C JAN FEB	MARAPR	MAY JUI	JUL AU	SEPO	ZI NOV D		FEB MAR	APR MAY		OSEPO	CT NOV	EC JAN	FEB MAR	APR MAY	JUN JUL	AUG SEI	2
TOTALS  TOTALS  262    OCTINOVIDEC JAIN FEB MARK APRI MAY JUIN JUL AUG SEP OCTINOV DEC JAIN  MANUFACTURERS NAME  **ALOCATION**  **ALOCATION**  **ALOCATION**  **ALOCATION**  **ALOCATION**  **ALOCATION**  **ALOCATION**  **ALOCATION*  **ALOCAT	-				262					·	100													
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TOTALS  TOTALS  262    OCT   MOV   DEC  JAN   FEB   MAR   APR   MAY   JUN   JUN   JUN   DEC  JAN																								
TOTALS  262  COT INOV DEC, JAIN FEB MARR APRI MAY, JUN JUL, AUG, SEP OCT INOV DEC, JAIN  MANUFACTURERS NAME  **REACH MAX AFTER D DAY  **TOBYHANNA ARMY DEPOT PA**  TOBYHANNA ARMY DEPOT PA**  TOBYHANNA ARMY DEPOT PA**  **		-																			;			
TOTALS  262    OCTINOV DEC, JAN   FEB MARI APR MAY JUN JUL   AUG SEP   OCTINOV DEC JAN		-v																						
TOTALS  TOTALS  262  COTINOV DEC, AN   FEB MARY APPLIAN   JUN   JUL   AUG   62   AND    RANUFACTURERS NAME  & LOCATION  ALCOSTION  B LOCATION  ANN   1-8-5   MAX   AFFER D.BAY    TOBYHANNA ARMY DEPOT PA   75   200   300   8    TBS  DD Form 2445, JUL 87  TITEM NO 151   PAGE NO 40 OF 45		-															-			·				
TOTALS 262   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 62   100 100 100 100 100 100 100 100 100 1																								
TOTALS  262    OCT   MOV DEC, JAN   FEB MAR, APP   MAY   JUN   JUL   AUG   SEP   OCT   MOV DEC, JAN																								
TOTALS  262  OCT NOV/ DEC, JAN   FEB MAR, APPR MAY, JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN    MANUFACTURERS NAME  & LOCATION  MANUFACTURERS NAME  & LOCATION  MIN   18-5   MAX   AFTER D DAY    TOBYHANNA ARMY DEPOT PA   75   200   300   8    TBS  DD Form 2445, JUL 87  ITEM NO 151   PAGE NO 40 OF 45																								
TOTALS  262  OCT NOV DEC, JAN FEB MARK APRI MAY, JUN JUL AUG SEP OCT NOV DEC, JAN PRODUCTION  MANUFACTURERS NAME  8 LOCATION  8 LOCATION  1-8-5 MAX AFTER D.DAY  TOBYHANNA ARMY DEPOT PA  TBS  DD Form 2445, JUL 87  TIEM NO 151 PAGE NO 40 OF 45																								
TOTALS  262    OCT   MOV  DEC  JAN   FEB   MAR  APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEC  JAN																						•		
TOTALS  262  OCT   MOV   DEC JAN   FEB   MAR APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEC   JAN    RANUFACTURERS NAME  & LOCATION  & LOCATION  MIN   1-8-5   MAX   AFTER D DAY    TOBYHANNA ARMY DEPOT PA   75   200   300   8    TESS  DD Form 2445, JUL 87  ITEM NO 151   PAGE NO 40 OF 45																								
TOTALS    Cot   Nov  DEG  Jan   FEB   MAR  APR  MAY   JUN   JUL   AUG   SEP   OCT   Nov   DEG  JAN															-			-						
TOTALS 262 0 100 100 62 JAN FEB MARK APR MAY JUN JUL AUG SEP OCT NOV DEC JAN PRODUCTION  MANUFACTURERS NAME  & LOCATION  & LOCATION  MIN 1-8-5 MAX AFTER DDAY PER JUL BY AFTER DDAY PRODUCTION  TOBYHANNA ARMY DEPOT PA 75 200 300 8 TEORDER  TBS  DD Form 2445, JUL 87  ITEM NO 151 PAGE NO 40 0F 45	1	$\dashv$	_							1	$\perp$	+	1				$\downarrow$							_
OCT   NOV  DEC  JAN   FEB   MAR  APR  MAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC  JAN		TOTA	VIS		262		<u>-</u>				100													
MANUFACTURERS NAME	1						C JAN FEB	MARAPR	MAYJU		SEP	NOV D	NA.	FEB MAR	APR MAY	JUN JUL AU	G SEP	CT NOV	EC JAN	FEB MAR	APR MAY	JUN JUL	AUG SE	
MANUFACTURERS NAME         RATES         MONTHS TO         ADMINITEAD TIME         ADMINITEAD TIME         ADMINITEAD TIME         ADMINITEAD TIME         APTER DIAMONTA RIVAL BATTER DAVING LIST         MANUFACTURING TOTAL TOBYHANNA ARMY DEPOT PA         T1-8-5         MAX         AFTER DDAY AFTER DAVING LIST         ADMINITEAD TIME         AFTER AFTER AFTER AFTER AFTER TIME         AFTER AFTER AFTER AFTER AFTER AFTER TIME         AFTER								a.	RODUCT					PROL	<b>JUCTION L</b>	EAD TIME		L.	EMARKS					
& LOCATION         MIN         1-8-5         MAX         AFTER D DAY         ADMIN LEAD TIME         AFTER TOBY         APTER TIME         TOBY         AFTER TIME         AFTER TIME         TOTAL         TOTAL         AFTER TIME         AFTER TI	Ŀ		MANUF	ACTURE	RS NAME	111			RATES		MONT	HS TO												
TOBYHANNA ARMY DEPOT PA         MIN         1-8-5         MAX         AFTER DDAY         AFTER DAY	⋖			& LOCAT	NOI.						REAC	H MAX		ADMIN LE	EAD TIME								•	
TOBYHANNA ARMY DEPOT PA         75         200         300         8         PRIOR AFTER         TIME         AFTER AFTER           TBS         75         200         300         8         '1 OCT 1	O							MIN	1-8-5		-4	DDAY	·			MANUFACTU		TOTAL						
TBS         75         200         300         8         1 OCT         1 OCT         1 OCT         1 OCT         1 OCT         1 OCT         1 OCT         24	-	<b>10B</b> )	YHANNA A	RMY DEP	OT PA			75			0	80		PRIOR	AFTER	TIME	_	<b>VFTER</b>						
REORDER   19 24	7	TBS						75			0	8		1 OCT	1 OCT			1001						
P-1 SHOPPING LIST  UNCLASSIFIED  ITEM NO 151 PAGE NO 40 OF 45  EXHIBIT P.											_	1	NITIAL		5		6	24						
P-1 SHOPPING LIST  UNCLASSIFIED  ITEM NO 151 PAGE NO 40 OF 45  EXHIBIT P-											_	Ē	EORDER											
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PAGE NO 40 OF 45		8	Form 2445, J	JUL 87													UNCL	ASSIFIED						
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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	GET ITEM JUSTIFICATION SHEET	EET		DATE FEBRUARY 1995	JARY 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement, Army: Army 3	·			P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUM	P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL	TION SYST	EM ELECTRI	SAL
Other Support Equipment					(DISE)			
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY		452	2.1	32				
	0.1	1.6	0.1	0.2	0.1	0.1	0	0
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DESCRIPTION: Distribution Illumination System Electrical is used to redistribute power from either a single generator or larger feeder system to multiple power users.

Distribution systems are planned to reduce the number of generators required by the Army by distributing power from one generator to multiple power requirements. Systems supported by this item include: Joint Tactical Fusion, Satellite Communications, Deployable Medical System, and most Table JUSTIFICATION: Will be fielded in conjunction with Tactical Quiet Generators to support numerous communications, weapons, and medical systems. Organization and Equipment TQG applications.

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-	P-1 SHOPPING LIST		PAGE NO 41 OF 45
			ITEM NO 151
		DD Form 2454, Jul 88	

CONTROL CONTROL				UNCLASSIFIED					
DD-COMP(AR) 1092	WE	WEAPON SYS	TEM COST	SYSTEM COST ANALYSIS EXHIBIT	XHIBIT			DATE FEBRUARY 1995	JARY 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUM (DISE)	ENCLATURE ON ILLUMIN (DISE)	P-1 ITEM NOMENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)	EM ELECTRI	CAL
		MANUFA PLANT CITY	MANUFACTURER NAME PLANT CITY/STATE LOCATION		WEAPON MODEL/SERIES/POPULAR NAME DISTRIBUTION ILLUMINATION SY( (DISE)	EL/SERIES/POP ON ILLUMIN (DISE)	WEAPON MODEL/SERIES/POPULAR NAME DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL (DISE)	EM ELECTRI	SAL
Weapon System Cost Elements	IDENT	FY 94 UNIT COST	Quantity TOTAL COST	TOTAL COST   FY 95 UNIT COST	TOTAL COST IN THOUSANDS OF DOLLARS FY 95 Quantity FY 96 UNIT COST TOTAL COST UNIT COST	OF DOLLARS FY 96 UNIT COST	Quantity TOTAL COST	FY 97 UNIT COST	Quantity
1. HARDWARE			0		452 1587		2.1 100		32 161
2. GOVERNMENT ENGINEERING			100		0		0		0
TOTAL			100		1587		100		161
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		ITEM NO 151		PAGE NO 42 OF 45	45			EX	P-5

REPORTS CONTROL SYMBOL	SYMBOL			UNCLASSIFIED						
DD-COMP(AR) 1092		GUB	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	ORY AND PL	ANNING EXHI	BIT		DATE FEBRUARY 1995	JARY 199	5
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	UDGET ACTIVITY ent: Army 3 quipment			P-1 ITEM NOMENCLATURE DISTRIBUT	ENCLATURE DISTRIBUTION	ENCLATURE DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL	SYSTEM ELE	CTRICAL		
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	МЕТНОВ	CONTRACTED	AWARD	FIRST	, <u>F</u>	TINO	AVAILABLE	REV C'O'S	WHEN
FISCAL YEAR	AND LOCATION	2	БТ	OAIE	DELIVENT	HINKON	- 500	802		AVAILABLE
1995	Fedral Prison Industries 40 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	38	6,303	YES	ON N	
	60 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	87	4,802	YES	Q N	
	100 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	20	5,851	YES	0 2	
	200 AMP DISE	SS/FP	ATCOM	Mar 95	Jan 96	13	9,369	YES	Q N	
	KIT ELEC UTIL (R62800)	SS/FP	ATCOM	Mar 96	Jan 96	294	2,357	YES	O <sub>N</sub>	
1996	Fedral Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 96	Nov 96	21	4,802	#REFI	O <sub>N</sub>	
1997	Fedral Prison Industries 60 AMP DISE	SS/FP	ATCOM	Jan 97	Nov 97	32	6030	YES	ON ON	
REMARKS		T								
<u>.</u>										
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		ITEM NO 151 PAGE NO	P1 SHOPPING LIST PAGE NO 43 OF 45	. LIST		UNCLASSIFIED	ED	EXHIBIT P-5A		

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A 97 32 32																																								_
TOTALS   505   COT   NOVE   DEC   JAM   FEB   MAN   ATHER   MAN   JAM   MAN   JAM   MAN   JAM   MAN   JAM   MAN   JAM   MAN   JAM	_		97	32		32												·														⋖								32
TOTALS   SoG   Law   Feb   Arm   A					<del></del>																																			
TOTALS   505   COT NOV DEC JAN FEB MART APPLIANCE JAN FEB MART APP																																								_
TOTALS   SOS   S																-																								
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TOTALS 605 01 NOV DEC LAN FEB MARI ATRI MAY JUN JUL AVIG SEP OCT NOV DEC LAN FEB MARI ATRI MAY JUL AVIG SEP OCT NOV DEC LAN FEB MARI ATRI MAY JUL AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG SEP OCT NOV DEC LAN FEB MAY AVIG																																	····							
TOTALS   566   Cot   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   Nov   DEC   JAN   FEB   MARI ART   MAY   JUN   JUL   ALO  SEP   OCT   MAY   JUN   JUL   ALO  SEP   OCT   MAY   JUN   JUL   ALO  SEP   OCT   MAY   JUN   JUL   ALO  SEP   OCT   MAY   JUN   JUL   ALO  SEP   OCT   MAY   ALO								-																																
TOTALS   SOS   SO   SO   SO   SO   SO   SO						•																			-															_
TOTALS   FOB   COCI NOV DEC   JAM   FEB   MARI APIR   MAY   JUN																					-															<u></u>				
TOTALS   E05   Cot   NOV   DEC   JAM   FEB   MARI   APRI   MAY   JUN																																								
TOTALS   Fob   Loc   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Nov   DEC   Jan   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jun   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jul   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jul   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jul   Jul   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jul   Jul   Jul   Aug   SEP   Oct   Jun   Feb   Mark   Jul   Jul   Jul   Aug   SEP   Oct   Jul   SEP   Oct   Jul   Jul   Aug   SEP   Oct   Jul   Aug					<del></del>																																			
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MANUFACTURERS NAME													PRO	DUCTIC	NO						Ī		PRODU	JCTION	JEAD	TIME				Ē	EMARK	s								Γ
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DD Form 2445, JUL B7		FEDE	FRAL PR	ISION IND	USTRIES	5					-	-	0	۳ ا	L	🏻	<del> </del>	8			•	PRIOF		TER		=	ME	,	AFTE		ALCE AF	MISTR	EN C				5			
P-1 SHOPPING LIST    TEM NO 151   Page NO 44 OF 45   TEM NO 151   Page N	7										Н		$\vdash$		-							11 00		OCT					.1 00											
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P-1 SHOPPING LIST  UNCLASSIFIED  ITEM NO 151 PAGE NO 44 OF 45  EXHIBIT P.											$\dashv$		$\dashv$		$\dashv$					REORD	ER		4		4		12			16										
UNCLASSIFIED ITEM NO 151 PAGE NO 44 OF 45		4	•	: :											ď	SH0	PPIN	SIT E	<b>-</b>														Peg	<u>.</u>	jo		Радов			Г
		3	FOR E 244	19, JUL 87								=	2	<u></u>	-		PAG	9	44	Ü	45							ONCI	ASSIF	G					2	Q TI	;			
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DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	ET ITEM JUSTIFICATION SHEET	EET		DATE FEBRUARY 1995	<b>20ARY 1995</b>
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Activity 3: Other Support Equipment				Generator R	Generator Readiness Incentatives	ıntatives		(
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	2.6	1.5	9.0	1.6	1.5	1.3	1.2	1.2
Description: Supports numerous generator improvement programs: Sample Data Collection, Disassembly of Power Units ar Systems Assessments, production engineering, and various testing on generator systems, that are not separately authorized.		nple Data Co nerator syste	llection, Disa yms, that are	ssembly of P not separatel	ower Units an y authorized.	id Power Pla	Sample Data Collection, Disassembly of Power Units and Power Plants, Generator n generator systems, that are not separately authorized.	
Justification								
	FY 95	FY96	FY 97					
SAMPLE DATA COLLECTION CONTRACT/ FIELDING SUPPORT SYSTEM ASSEMENT	0.610 0.574 0.350	0.200 0.140 0.345	0.600 0.658 0.350					
	1.534	0.685	1.608					
		~						
		P-1	P-1 SHOPPING LIST	LIST	10/417	Calabox Okt	Page	of Pages
UD Form 2434, Jul 68	ITEM NO 151	151	PAGE NO 45 OF 45	F 45	500	Solrico	EXHIE	EXHIBIT P-40

		3	UNCLASSITED					
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	0 N 8	BUDGET ITEM J	EM JUSTIFICATION SHEET	ON SHEET		DATE February 1995	55	-
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NOMENCLATURE IRUCK, FORK LIFT, DE,	P-1 ITEM NOMENCLATURE TRUCK, FORK LIFT, DE, PT, RT, 50000 LB	50000 LB			
orner support equipment								(M41200)
	PY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00   FY 01	FY 01
QUANTITY			33				50	16
COST(IN MILLIONS)	-		11.0				0.9	6.0   5.0

DESCRIPTION: The Rough Terrain Container Handler (RTCH) provides a capability of handling the 8' wide family of containers weighing up to 50,000 pounds and 20'and 40' long. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording in up to 5' of saltwater. The RTCH is a modified commercial design.

JUSTIFICATION: The U.S. Army inventory now contains equipment that has demonstrated poor reliability due to age during operation Desert Storm (Kuwait) and Restore Hope (Somalia) and is becoming immensely difficult to support as repair parts become harder to obtain and more costly from commercial sources. This vehicle is used by terminal transfer, ammo companies, ammo plants, and depots.

		EXHIBIT P-40
-	UNCLASSIFIED	
P-1 SHOPPING LIST		ITEM NO 152 PAGE NO 1 OF 4
	DD Form 2454, JUL 88	

	BUDGET PR(	OCUREMENT HISTOR	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P	(P - 5A)			DAT	DATE February 1995	995	
APPROPRIATION Other Procure Other Support	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment			P-1 ITEM NOME TRUCK, FORK L (RTCH)	NCLATURE IFT, DE, PT,	P-1 ITEM NOMENCLATURE TRUCK, FORK LIFT, DE, PT, RT, 50000 LB ( (RTCH)	(M41200)			
COST ELEMENT/ FISCAL YR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ*D	IF YES WHEN AVAILABLE
FY 96	TO BE SELECTED	C/FP/0PT	ТАСОМ		90 NOT	83	310,000	YES	ON	
REMARKS FY 96 is an o	REMARKS FY 96 is an option to an Air Force contract.	act.							_	
	DD Form 2446-1, JUL 87		P-1 SHOPPING LIST ITEM NO 152 PAGE NO	3 OF 4		EXHIBIT	P - 5A	PROCUREMENT HISTORY AND PLANNING	TORY AND P	ANNING

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P - 5A)

REMARKS	1-6-5   HAXIMM   AFER 0 DA   RECRETE   12   3   6   9	1-6-5   HAXIMM   AFER 0 DA   PROCUREHENT LEAD TIME   REMARKS   1-6-5   HAXIMM   AFER 0 DA   PRIOR   AFFER   MANUFACIURING   TOTAL   AFFER 1 OCT   AFFER 1	1-6-5   HAXIMM   AFTER D DAY   RECRIBER   12   3   6   9	1-6-5   HAXIMJM   AFFER D DAY   RECRIBER   1-6-1   AND HILL   1-6-1					
PRODUCTION RATES   WONTHS TO	PRODUCTION RATES   WONTHS TO	PRODUCTION RATES   NOWTHS TO	PRODUCTION RATES   NONTHS TO	HINIMAN   1-6-5   HAXIMAN   AFTER 0 DAY   PRIOR   AFTER   MANUFACIURING   TOTAL   TO	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HINIMAN 1-8-5 HAXIMAN AFER DAY   APPLIANCE   APPLIAN	HINIMAN 1-8-5 HAXIMAN AFER DAY   APPLIANCE   APPLIAN	HINIMAN 1-8-5 HAXIMAN AFER DAY   APPLIANCE   APPLIAN	HINIMM 1-6-5   HAXIMM   AFTER 0 DAY	HINIMAM   1-6-5   MAXIMAM   AFTER D DAY   ADMIN LEAD THRE	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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HINIMAN 1-8-5 MAXIMON AFFER D DAY   PRIOR AFFER MANUFACTURING TOTAL   TOTAL	HINIMM 1-8-5 MAXIMUM AFFER D DAY   PRIOR AFFER MANUFACTURING TOTAL   1 OCT	HINIMM 1-8-5 MAXIMUM AFFER D DAY   PRIOR AFFER MANUFACTURING TOTAL   1 OCT	1-0-5   HAXIMAN AFTER 0 DAY   PRIOR AFTER MANUFACTURING   1 OCT   1 OCT   1 NE   1 N	HINIMM   1-6-5	33 0 0 0 0 0 0 0 6 6 6 3 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HINIMUM   1-8-5   HAXIMUM   AFTER DAY   PRIOR   AFTER   HAWUFACIURING   TOTAL   1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   AFTER 1 OC	HINIMUM   1-8-5   HAXIMUM   AFTER DAY   PRIOR   AFTER   MANUFACIURING   TOTAL   1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   AFTER 1 OC	HINIMUM   1-8-5   HAXIMUM   AFTER DAY   PRIOR   AFTER   MANUFACIURING   TOTAL   1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   AFTER 1 OC	HINIMM 1-6-5	HINIMUM 1-6-5 HAXIMUM AFTER 0 DAY   ADMIN LEAD TINE   PRIOR AFTER NANUFACTURING   1 OCT   1 OCT   1 NT   1 NE   NANUFACTURING   1 OCT   1 OCT   1 NE   NANUFACTURING   1 OCT   1 OCT   1 NE   NANUFACTURING   1 OCT   1 OCT   1 NE   NANUFACTURING   1 OCT   1 OCT   1 OCT   1 NE   NANUFACTURING   1 OCT   1 OCT   1 NE   NANUFACTURING   1 OCT   1	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HINIMAN 1-6-5	HINIMAN 1-6-5 HAXIMAN AFTER 0 DAY   ADMIN LEAD TINE   TOTAL	HINIMAN 1-6-5 HAXIMAN AFTER 0 DAY   PRIOR AFTER NAWIFACTURING TOTAL 1 OCT 1	HINIMAN 1-6-5   MAXIMAN AFTER 0 DAY   PRIOR AFTER   MANUFACTURING TOTAL   TOCT   1 O	MINIMAN   1-6-5   MAXIMAN   AFFER D DAY   ADMIN LEAD THE   AFFER D DAY	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HINIMUM   1-8-5   MAXIMUM   AFTER D DAY   PROCUEMENT LEAD THE   REACH MAX   AFTER D DAY   PRIOR   AFTER   MANUFACIURING   TOTAL   1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT   TIME   AFTER 1 OCT   1 OCT	HINIMUM 1-6-5   MAXIMUM   AFTER D DAY   PROCUEMENT LEAD THE	HINIMAN 1-6-5   MAXIMAN   AFTER 0 DAY   PROCUEMENT LEAD THE	HINIMUM   1-8-5   MAXIMUM   AFTER D DAY   PROCUEMENT LEAD THE   REACH MAX   AFTER D DAY   PRIOR   AFTER   MANUFACIURING   TOTAL   1 OCT   1	PROCUEDING RATES   MOMINS TO   PROCUREMENT LEAD THE	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PRODUCTION RATES   MONTHS TO   REACH MAX   ADMIN LEAD TIME   REACH MAX   ADMIN LEAD TIME   APPROCUREMENT LEAD TIME   APPROCUREMENT LEAD TIME   APPROCUREMENT LEAD TIME   APPROCUREMENT   TOTAL   ADMIN LEAD TIME   APPROCUREMENT   TOTAL   APPROCUREMENT   TOTAL   ADMIN LEAD TIME   APPROCUREMENT   TOTAL   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   APPROCUREMENT   ADMIN LEAD TIME   ADM	PRODUCTION RATES   MONTHS TO   REACH MAX   ADMIN LEAD TIME   REACH MAX   ADMIN LEAD TIME   ADMIN LEAD TIME   AFFER 0 DAY   PRIOR   AFFER 1 OCT   1 O	PRODUCTION RATES   MONTHS TO	PRODUCTION RATES   MONTHS TO   REACH MAX   ADMIN LEAD TIME   REACH MAX   ADMIN LEAD TIME   ADMIN LEAD TIME   ATTER 0 DAY   PRIOR   ATTER   MANUFACTURING   TOTAL   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ATTER 1 OCT   ADMIN LEAD TIME   ADMIN	PRODUCTION RATES	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FRODUCTION RATES   WOMTHS TO   REACH MAX   REAL MAXIMUM   1-6-5   HAXIMUM   4-6-5	FRODUCTION RATES   WOMTHS TO   REACH MAX   REACH MAX   REACH MAX   ADMIN LEAD TIME   TOTAL   ADMIN LEAD TIME   ATTENT OF   ADMIN LEAD TIME   ADMIN L	FRODUCTION RATES   WOMINS TO   REACH MAX   REACH MAX   REACH MAX   ADMIN LEAD TIME   TOTAL   ADMIN LEAD TIME   ADMIN LEAD TIME   ADMIN LEAD TIME   ADMIN LEAD TIME   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ATTEN TOTAL   ADMIN LEAD TIME   ADMIN L	FRODUCTION RATES	PROUCTION RATES   HONTHS TO   REACH LEAD TIME   REMARKS   REACH LEAD TIME   REMARKS   REACH LEAD TIME   TOTAL   LOTA	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PRODUCTION RATES   MONTHS TO   PROCUREMENT LEAD THRE   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR   MAR   APR	PRODUCTION RATES   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT   MONTHS TO   FRANCINC	PRODUCTION RATES   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   REMARKS   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT LEAD THE   MONTHS TO   FRANCINCEMENT   MONTHS TO   FRANCINC	PRODUCTION RATES   NOW HISTOR   PROCUREMENT LEAD TIME   NOW   NO	PRODUCTION RATES	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
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OCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUN	OCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUN	DCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUM   JUL   AUG   SEP   OCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUM   JUL   AUG   SEP   OCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUM   JUL   AUG   SEP   OCT   NOV   DEC   JAM   FEB   NAR   AUM   JUL   AUG   SEP   OCT   NOV   DEC   JAM   FEB   NAR   ADPRING   TOT	OCT   NOV   DEC   JAM   FEB   NAR   APR   NAY   JUM	OCT   NOV   DEC   JAN   FEB   NAR   APR   NAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   APR   NAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   APR   NAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   APR   NAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   APR   NAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   JUL   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG   AUG   SEP   OCT   NOV   DEC   JAN   FEB   NAR   AUG					
PRODUCTION RATES   MAX   AND	PRODUCTION RATES   MONTHS TO   FE G NAT   JUN   JUL   AUG   SEP   OCT   MOV   DEC   JAN   FEB   MAR APR   MAY   JUN   JUL   AUG   SEP   OCT   MOV   DEC   JAN   FEB   MAR APR   MAY   JUN   JUL   AUG   AUG   SEP   OCT   MOV   DEC   JAN   FEB   MAR APR   MAY   JUN   JUL   AUG	PRODUCTION RATES   MONTHS TO   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR APR NAY   JUN   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   ALG   SEP   OCT   MOY   DEC   JAN   FEB NAR   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG   SEP   OCT   MOY   JUL   ALG	PRODUCTION RATES   NAMING LIST   RECRORER   12   12   13   14   15   15   15   15   15   15   15	OCT NOV DEC JAN FEB HAR APP NAY JUN JUL NUG SEP OCT NOV DEC JAN FEB HAR APP NAY JUL NUG SEP OCT NOV DEC JAN FEB HAR APP					
E PRODUCTION RATES WANTHAM AFER NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT SERVICE STATE NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT APR NAT JUN JUL ALG SEP OCT NOY DEC JAN FEB NAT APR NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB NAT JUL ALG SEP OCT NOY DEC JAN FEB	E PRODUCTION RATES   MAXIMAN   MAXIM	E PRODUCTION RATES   MAXIMUM   MAXIM	E PRODUCTION RATES   MAXIMAN   1-6-5   MAXIMAN   MATIMAN   MATIMAN	E PRODUCTION RATES   MANTHAM   1-8-5   MAXIMAM   AFTER DAY   MATTAN   MATTA					
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(M41800) 8 Ϋ́ DATE February 1995 FY 99 FY 98 P-1 ITEM NOMENCLATURE ALL TERRAIN LIFTING ARTICULATED SYSTEM SHEET FY 97 JUSTIFICATION FY 96 UNCLASSIFTED Σ ш — FY 95 BUDGET FY 94 APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment REPORTS CONTROL SYMBOL DD-COMP(AR)1092

FY 01 DESCRIPTION: The ALL Terrain Lifter Articulated System (ATLAS) is a rough terrain forklift which has the same mobility and speed as the 6,000 lb (6K) variable reach rough terrain forklift and can perform the functions required of the current Army standard 10,000 lb (10K) rough terrain forklifts. 157 16.6 14.4 112 COST(IN MILLIONS) QUANTITY

JUCTIFICATION: Current 6,000 and 10,000 lb rough terrain forklifts assigned to quartermaster Units are not capable of stuffing and unstuffing 20 foot international Standardization Organization (ISO) containers. The current 10,000 lb forklift requires major disassembly and use of a special kit for air transport by C-130 aircraft. The ATLAS operational concept requires use throughout the theater to expedite logistical support functions. All classes of supply will be handled.

		EXHIBIT P-40
	UNCLASSIFIED	
P-1 SHOPPING LIST		ITEM NO 153 PAGE NO 1 OF 5
	DD Form 2454, JUL 88	•

1500   1500	WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY OTHER SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/POPULAR NAME ALL TERRAIN LIFTING ARTICULATED	.AR NAME 1G ARTICULATED	SYSTEM (M41800)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION N/A		D. DATE MONTH/YEAR February 1995
WILL COST 107AL COST WILT COST 107AL COST 0417 COST 107AL COST 107	WEAPON SYSTEM COST ELEMENTS	IDENT		ary	FY 95	aty	FY 96		FY 97	QTY 157
11124 102 850 850 105 850 105 105 105 105 105 105 105 105 105 1			UNII		UNIT COST		UNIT COST	TOTAL COST		TOTAL CO
1073 500 1179 1073 655 12 12 12 12 12 12 12 12 12 12 12 12 12	HARDWARE				· · · · · · · · · · · · · · · · · · ·		8	11124	102	15885
JUN 86  1140  11403  11403  114403  114403  114403  114403  114403  114403  114403  114403  114403	DOCUMENTATION							850		
1073 695 12 14403 1980 11ER NO 153 PAGE NO 2 OF 5 1TER NO 153 PAGE NO 2 OF 5	REFURBISHMENT							200		
1073 695 174403 114403 PAGE NO 2 OF 5 EXHIBIT P-5 WEAPON SYSTEM COST AMALYSIS	SPECIAL TOOLS		·					149		26
14403 14403 1986 11EM NO 153 PAGE NO 2 OF 5 11EM NO 153 PAGE NO 2 OF 5	TESTING						,	1073		
114403 114403	ENGINEERING SUPPORT	-						969		623
2446, JUN 86  11EH NO 153 PAGE NO 2 OF 5  EXHIBIT P-5 WEAPON SYSTEM COST ANALYSIS	ENGINEERING CHANGE ORDERS							12		52
JUN 86  1 TEM NO 153 PAGE NO 2 OF 5  EXHIBIT P-5 WEAPON SYSTEM COST AMALYSIS	TOTAL PROGRAM COST		<b>7</b>					14403		1658
JUN 86  ITEM NO 153 PAGE NO 2 OF 5			·							
	DD Form 2446, JUN 86		NO 153 PA	0F	, ru		EXHIBIT P-5	WEAPON SYSTEM	COST ANALYS	

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			IF YES, WHEN AVAILABLE	MAY 96			
	366		SPEC REV REQ'D	YES			D PLANNING
	DATE February 1995		SPECS AVAILABLE NOW	ON			T HISTORY AN
	DAT	441800)	UNIT	99,321			EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING
	(P-5A)	ULATED SYSTEM (M41800)	QUANTITY	112		YPE CONTRACT.	EXHIBIT P-
		P-1 ITEM NOMENCLATURE ALL TERRAIN LIFTING ARTICULATED	DATE OF FIRST DELIVERY	NOV 96 AUG 97		JIREMENTS T	
<b>Q</b>	ND PLANNING	ITEM NOMENC	AWARD DATE	JUN 96 MAR 97		VE FFP REQL	70
UNCLASSIFIED	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT	P-1 ALL	CONTRACTED BY	TACOM		FY 95 WHICH IS A COMPETITIVE FFP REQUIREMENTS TYPE CONTRACT.	P-1 SHOPPING LIST ITEM NO 153 PAGE NO 3 OF
	BUT		CONTRACT METHOD & TYPE	CFPW/OPTION CFPW/OPTION	·	NTRACT AWARDED IN	ITE
		APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	CONTRACTOR AND LOCATION	TO BE SELECTED TO BE SELECTED		REMARKS FY 96 AND FY 97 TO BE OPTIONS TO RDTE CONTRACT AWARDED IN FY 95 WHI	DD Form 2446-1, JUL 87
		APPROPRIATION / BUDGET / Other Support Equipment	COST ELEMENT/ FISCAL YR	FY 96 FY 97		REMARKS FY 96 AND FY	

CODE "8" ITEM O	DESCRIPTION	DATE February 1995			RE	REPORT CONTROL SYMBOL DD-COMP(AR)1092	SYMBOL 092
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment		P-1 ITEM NOMENCLATURE All-Terrain Lifter Articulated System	JRE Articulated S	ystem			70004787
CURRENT DEVELOPMENT AND TEST STATUS							(M4 1000)
		S	SCHEDULE DATE				
	CURRENT	LAST REPORTED			REASON FOR DELAY	١٨	
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) PLAN/ACTUAL OPER TEST & EVAL (0T&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	UAL UAL UAL						
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	: May 96						
EQUIPMENT ITEM(S) TO BE REPLACED 10,000 LL	10,000 lb Rough Terrain Forklift						
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED International Standardization Organization (1SO) Containers Engineering, Aviation and Medical Units.	NT TO BE REPLACED Introduces Vol. (180) Containers and 463L Pall	Introduces Varialbe Reach Capability for Stuffing and Unstuffing 20 Foot and 463L Pallet Handling capabilities to Quartermaster, Transportation, Ordinance, Missle and Munitions,	for Stuffing a to Quartermast	nd Unstuffing a	20 Foot tion, Ordinance	, Missle and	Munitions,
DEVELOPMENT CONTRACT INFORMATION	RDT&E	FUNDING PROFILE (\$ IN	WILL FONS)				
CONTRACTOR NAME	PLANT LOCATION	COMPONENT	THRU FYR 94	CY 95	BY1 96	BY2 97	BEYOND BY'S
All In-House			1.000			٠	
To Be Selected				6.615	1.269		
TOTAL RDT&E FUNDING			1.000	6.615	1.269		
REMARKS MILESTONES PLAN	PLANNED ACTUAL						
M/S III (Production Decision) Hay	May 96 Oct 97						
	•						
DD Form 2443, JUL 88	P-1 SHOPPING LIST ITEM NO 153 PAGE NO	PING LIST PAGE NO 4 OF 5				EXHIBIT P-19	

REPORTS CONTROL SYMBOL DD-COMP(AR)1092	1002	SYMBOL										4	9	UNCLASSII	=	ے		u												<u></u>				,		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	re Eq.	BUDGET A t: Army ulpment	CTIVIT 3	_											1		P-1 ITEM MOMENCIATURE ALL TERRAÍM LIFTING ARTICULATING SYSTEM	EN NON	ENCLAT	URE IG ART	TOULA	DH I	SYST	3						-		CALL PERCONAL LYND	<u> </u>	2		
FACILITY	4		PROCA	PROGRAM QUANTITY	TIT		254	-	$\vdash$	FISCAL YEAR	1	8				7		FISCA	FISCAL YEAR	8							E	FISCAL YEAR		8						- 1800)
) 0	<u> </u>	$\vdash$	$\vdash$	$\vdash$	$\vdash$	-	80.0		ا س		Ť	CALEND	CALENDAR YEAR 96	8						15	CALENDAR YEAR	YEAR	26		ĺ				卜	SEE	DAR Y	CALENDAR YEAR 98				Τ
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<b>4 4 4</b>	< <u>z</u> <	05		22	252			-	50 2 20 157						< <				× .	<u>c</u>	ot .	20 20 A	8	2 2	<u>s</u>	23 30	9	30	9	=						
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FACILITY	\$	MANUFACTURERS MANE	TERS MA	뿦			ž	PRODUCTION RATES	# RATE	S.		¥	MONTHS TO	2		٦	PROCURENENT LEAD TIME	THE F	S.	ᄬ	{		] [	2	REMARKS 1. F	200	3	3	=	ES AN	1 2	l is	S	T ANGS		5
		<b>5</b>	5		<del></del>	MINIM	5	1.8.5	5	3	MAXIMUM	<u> </u>	REACH MAX AFTER D DAY	¥ ¥		E E	ADMIN LEAD TIME	1							- ~	EVISE 796/	8 E	WIST W 76	10 m	STRAT	EGY A	OT OT	FUN	S.		į
	-	TO BE SELECTED	ECTED				2	"	30		3	-	۰	T		PR 10R 1 OCT	AFTER 1 1 OCT		MANUFACTURING TINE	CTUR 1		TOTAL AFTER 1 OCT	_ <del>5</del>		,	797 C	2 E	2 5	AVAR	SEO A	SINI	TIAL.	E .	REORDER LEAD TIMES USED AS INITIAL.  3. FYO? OPTION NOT AVARDED UNTIL COMPLETION OF POT (NOV 96	E	8
														2	INITIAL	~	_	۵	=	_	-	2			•	PUR 97).	<u>.</u>									
$\dashv$												$\vdash$		Æ	REORDER	•	_				-	2		, ·												
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	8	00 Form 2445, JUL 87	30F	24					•	- 9	P-1 SH	HOPPING LIST	11157										]	UNCLASSIFIED	1 1 2	۵			┝							
									-	ITEM NO 155	2	PAG	PAGE NO	50 0	٠														_					Š	EXHIBIT P-21	₽.2

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	UNCLASSIPTED	
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	BUDGET ITEM JUSTIFICATION SHEET	DATE February 1995
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE)	(ML5365)

FY 01

FY 00

FY 99

FY 98

97

96

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FY 95

FY 94

2.0

5.0

1.8

7.8

DESCRIPTION: This program covers the various types of Material Handling Equipment (MHE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program).

2.8

4.7

COST(IN MILLIONS)

QUANTITY

JUSTIFICATION: This program is required to fill existing backorders and high priority shortages in Army Units, AMC maintenance depots and ammunition storage facilities. This critical combat support equipment is needed for movement of materials, supplies, and equipment. This equipment is critical towards insuring combat readiness and fleet mobilization of U.S. Armed Forces. The FY96-97 program funding will be utilized to procure 3 different Materials Handling Equipment (MHE) systems ( M487 - 4K LB Whse Tractor, M469 - 10K lb Whse Crane, and M482 - 6K lb Forklift). Each of these systems are being procured to replace overaged, high usage unsupportable models and fill priority shortages. These systems are essential to and are utilized in garrison, depot, ammunition plants and miscellaneous supply/material transport operations. These systems are considered essential in peacetime and are critically required in wartime operations.

		EXHIBIT P-40
	UNCLASSIFIED	
P-1 SHOPPING LIST		ITEM NO 154 PAGE NO 1 OF 4
	DD Form 2454, JUL 88	

- WEAPON SYSTEM COST ANALYSIS Exhibit (P-5)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO OTHER PROCUREMENT ARMY 3 OTHER SUPPORT EQUIPMENT		3. WEAPON IODEL/SERIES TEMS LESS 1	B. WEAPON MODEL/SERIES/POPULAR NAME ITEMS LESS THAN \$2.0M (MHE)		C. MANUFACTURER NAME PLANT/CITY/STATE/LOCATION	ME OCATION	D. DATE MONTH/YEAR February 1995	1995		
WEAPON SYSTEM		1DENT F	FY 94	aTY	TOTAL C FY 95	COST IN THOUSANDS OF DOLLARS aly fy 96		ату	FY 97	QTY	
COSI ELEMENTS			UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL	COST
6K SRT FL (M482) TRK FL 15K GAS (M490) CRANE, TRK WHS (H469) TRK FL 4K SRT (H483) TRK FL 4K SRT (H483) TRK FL 2K (M487)		<b>4444</b>		(26) 1194 (23) 1994 (31) 612 (64) 1274		(16) 955 (85) 1872 (100) 1867		(14) 836 (103) 1974		(22)	926
ENGR SUPPORT BELT CONVEYOR (M465)		₹ ₹						33			23
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		<del></del>							_		
				5816		7697		2843		.,	2772
		_	P-1 SHOPPING LIST	G LIST							
DD Form 2446, JUN	JUN 86	ITEM NO 154	154 PAG	PAGE NO 2 OF	4	EXH	EXHIBIT P-5 WEA	WEAPON SYTEM COST ANALYSIS	T ANALYSIS		
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REPOR	REPORTS CONTROL SYMBOL		±	UNCLAS	F1ED N C	0 0 1 1 8 8		DATE Febr	DATE February 1995	
APPR	APPROPRIATION / BUDGET ACTIVITY	:			EM NOMENCLA	i				
othe othe	Other Procurement: Army 5 Other Support Equipment			<u> </u>	FY 96					(ML5365)
S C E	NOMENCLATURE	AAO	ASSETS ON-HAND	ASSETS OH END BY FDP (INCLUDES BY QTY)	UNIT	QUANTITY REQUIRED	(THOUSANDS) TOTAL DOLLARS	CONTRACT	CONTRACT	AWARD DATE
- N	TRAC, WHS, 4K, DED (M487) CRANE, TRK, WHS (M469)	1344	1344 156	1344 159	19163 59714	103	1974 836	FFP FFP	OPTION OPTION	DEC 95 DEC 95
			P-1 SHOITEM NO 154	1 SHOPPING LIST 154 PAGE NO 3 O	0F 4	UNCLASSIFIED	SIFIED		EXHIBIT P-5a	
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OPPERATION 2 YMBOL  THE NOTION 1 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ 2 TO BE SO THAN \$ TO BE SO TH		
operiation / Budget Activity or Support Equipment or Support Equipment  NOMENCLATURE AAO ASSETS ON HAND BY GTY)  6K SRT FL (M482) CRANE, TRK, WHS (M469) 177 159 17	ISSIFIED HILLION DOLLARS	DATE February 1995
MOMENCLATURE  AAO  ASSETS  ON-HAND  GK SRT FL (#482)  GRANE, TRK, WHS (#469)  177  159  177  177  177  177  177  177	P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2.0M (MHE) FY 97	(ML5365)
6K SRT FL (M482) 166 64 CRANE, TRK, WHS (M469) 177 159	(THOUSANDS) S UNIT QUANTITY TOTAL COST REQUIRED DOLLARS	CONTRACT CONTRACT AWARD TYPE METHOD DATE
	55242 22 926 55242 33 1823 1823	FFP CP DEC 96 OPTION DEC 96
-1 SHOPPING LIST		a roote (i.e.)
ITEM NO 154 PAGE NO 4 OF 4		EXHIBIT P-5a

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REPORTS CONTROL SYMBOL

DD-COMP(AR)1092

DATE FEBRUARY 1995

(MA6600)

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34.8

33.8 FY 99 14.9 P-1 ITEM NOMENCLATURE COMBAT TRAINING CENTERS SUPPORT 8 13.9 ۲ FY 97 8 22.2 ¥ 5 21.1 7 8 22.9 APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT COST(IN MILLIONS) QUANTITY

## DESCRIPTION:

THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. CTC INCORPORATES THE FOLLOWING PROGRAMS: THE NATIONAL TRAINING CENTER (NTC), AND THE BATTLE COMMAND TRAINING PROGRAM (BCTP). INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED UNDER THIS PROGRAM FOR THE THREE MANEUVER TRAINING CENTERS TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE INSTRUCTIVE AFTER ACTION REVIEWS. THIS PROVIDES FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES REALISTIC COMBAT TRAINING WITH LONG-TERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS.

## JUSTIFICATION:

COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED DATA TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES)
COMPATIBLE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE COMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT.
THE NTC FY96/97 PROGRAM INCLUDES THE AH-64 INSTRUMENTATION SYSTEM EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE AGES II PRODUCTION SYSTEMS.
THE EFFORTS OF THE NTC RANGE DATA MEASUREMENT SYSTEM (RDMS) WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENTS IN THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE CTC'S ARE THE ARMY'S PREMIERE TRAINING AREAS. THEIR EFFECTIVENESS WAS DEMONSTRATED BY OUR SUCCESS IN DESERT STORM. IT IS ESSENTIAL THAT OUR INVESTMENT IN THE CTC'S BE MAINTAINED BY ASSURING THAT THE TRAINING PROVIDED REPRESENTS CURRENT DOCTRINE AND WEAPON CAPABILITY. THE JRTC FY96/FY97 PROGRAM ACQUISITION FOR JRTC INSTRUMENTATION SYSTEM MILITARY OPERATION IN URBAN TERRAIN (MOUT) PROVIDES INITIAL PROCUREMENT OF TRAINING.

,	Page of Pages	EXH181T P-40	
		UNCLASSIFIED	
	P-1 SHOPPING LIST	ITEM NO 155 PAGE NO 1 OF 22	
		DD Form 2454, JUL 88	

	WEAPON SYSTEM COST ANALYSIS			A. Appropriation/Budget	idget	B. WEAPON		C. MANUFACTURER NAME	R NAME	D. DATE
	EXHIBIT (P-5) COMBAT TRAINING CENTERS SUPPOR		100334	Activity Title/No.		MODEL/SERIES/POPULAR	PULAR	PLANT CITY/STATE LOCATION	LOCATION	Month/Year
	KAIINING CEN I EKS SUFFO	- 1	(MAbbuu)		ı	5	١	ı		February 1995
	Vveapon System Cost Elements	Code	FY 9 Unit Cost	94 Qty Total Cost	CY Unit Cost	95 Qty Total Cost	BY1 Unit Cost	96 Qty Total Cost	BY2 Unit Cost	97 Qty Total Cost
<u> </u>	1 CMTC - Hohenfels, Germany:	∢		-						
	CMTC Instrumentation System Support			792		4303				
0	2 JRTC - Ft. Chaffee, AR/Ft. Polk, LA:	∢								
	JRTC Instrumentation System (JRTC-IS) JRTC Instrumentation System Support			15686 141		8657	·	4552		·
-	JRTC-MILES Grenade/Claymore					0		2000		
	JRTC MOUT JRTC MOUT Support					2825		3563 297		500 111
	JRTC Live Fire Targets					3283				
<u>e</u>	3 NTC - Ft. Irwin, CA:	∢								
	Range Data Measurement Subsystem (RDMS) Range Data Measurement Subsystem DCI's Range Data Measurement Subsystem Support			2250 1025		3981 3286		2876 424		
	CTC-IS/AGES II CTC-IS/AGES II Support			95		2694 16	,	2156 44		
	Observer-Controller Communication System			1000						
4	OPFOR Surrogate Vehicle (OSV) OPFOR Surrogate Vehicle Support (OSV)					-		3576 824		4470 528
5	Battle CMD Training PGM After Action Review Battle CMD Trng Pgm After Action Review Support			1850 105				1896 0		
ဖ	Camp Shelby -Armor Silouette Target Mover and Physical Security System	· · · · · · · · · · · · · · · · · · ·				1100				
	NOTE: FY95 (\$9059K) Reprogrammed to CTC (MA6600) From NSTD (NA0100)			22919		30145		22208		5609

			UNCLA	CA (ED				
REPORTS CONTROL SYMBOL							DATE FEBRUARY 1995	Y 1995
DD-COMP(AR)1092		<b>B</b>	SUDGET ITEM JU	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	ET			
APPROPRIATION / BUDGET ACTIVITY	ITY			P-1 ITEM NOMENCLATURE	TURE			
OTHER PROCUREMENT: ARMY 3	6			JOINT READINE	JOINT READINESS TRAINING CENTER	85		
OTHER SUPPORT EQUIPMENT								
								(MA6601)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
DUANTITY								
COST (IN MILLIONS)	15.8	14.8	10.4	0.6				
DESCRIPTION:					-			

SYSTEM (JATC-1S), A VOICE RADIO COMMAND AND CONTROL NET, AND A LIMITED DIGITAL MAPPING SYSTEM AT A FIXED SITE USED FOR GRAPHIC PRESENTATIONS IN AFTER ACTION REVIEWS (AARS). THE OBJECTIVE JATC-1S WILL MONITOR, SYSTEMS TO SUPPORT THE ROTATIONAL SCENARIO PLAY. THE INSTRUMENTATION SYSTEM REQUIRED WILL SUPPORT THE JRTC OPERATIONS GROUP PERSONNEL IN THE ABOVE DATA COLLECTION EFFORT AS WELL AS THE COMMAND AND REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS. AS AN ADJUNCT TO JRTC OPERATIONS, THE CLAYMORE MINES AND HAND GRENADES TACTICAL ENGAGEMENT VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW-ON SUSTAINMENT TRAINING. OVERALL, THIS CTC EXPERIENCE PROVIDES THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS ARE BEING PROCURED AND UPGRADED FOR THE THREE MANEUVER COMBAT FRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVES GATHER, TIME-TAG, STORE, INTEGRATE, TRANSMIT, AND DISPLAY FORCE-ON-FORCE EXERCISE AND LIVE FIRE DATA. SYSTEM DEVICES WILL INDUCE REAL TIME, SIMULATED CASUALTIES INTO THE SCENARIO PLAY THAT IS AS CLOSE TO SIMULATORS WILL BE PROCURED. CURRENTLY, THERE IS A LIMITED INTERIM INSTRUMENTATION CAPABILITY IN USE AT THE JRTC. EXISTING CAPABILITIES CONSIST OF DATA COLLECTED FROM THE JRTC INTERIM INSTRUMENTATION ROTATIONAL MISSIONS CONDUCTED AT THE JATC MOUT COMPLEX. THE JATC MOUT COMPLEX WILL CONTAIN BOTH INSTRUMENTATION FOR DATA COLLECTION AND THE NECESSARY INTERACTIVE TARGET SYSTEMS WITH FEEDBACK COMBAT REALISM AS POSSIBLE DURING ALL PHASES OF A UNIT'S MISSION. CURRENTLY THERE IS NO AUTOMATED CAPABILITY FOR TRAINING EVENT DATA COLLECTION OF COMMAND AND CONTROL OF UNITS PARTICIPATING IN CONTROL OF THE PLAYERS

## JUSTIFICATION:

NECESSARY TO COMPLETE PRODUCTION AND FIELDING, WITH APPROPRIATE INTEGRATION AND TESTING, FOR LOT 1 OF THE JRTC-IS. THE JRTC MOUT COMPLEX WITH AN AUTOMATED CAPABILITY TO COLLECT AND RECORD EXERGISE EVENTS IHP) AND LESSONS LEARNED. THE AUTOMATED MOUT FACILITY WIL CAPITALIZE ON STATE-OF-THE-ART TECHNOLOGY TO PROVIDE OIC SAFETY CONTROL OF THE EXERCISE, WITH MONITORING/CONTROL OF MANEUVER DATA COLLECTION. THE FY0007 PROGRAM ACQUISITION FOR JRTC MOUT PROVIDES INITIAL PROCUREMENT OF COMMERCIAL OFF-THE-SHELF ITEMS WITH ASSOCIATED LABOR TO INSTALL A "WORLD CLASS" MOUT FACILITY AT THE JRTC. MILES COMPATIBLE DATA, AND REPORTS DURING THE AAR. THE POSITION LOCATION OF SELECTED FRIENDLY AND OPPOSING FORCE PARTICIPANTS WILL BE TRACKED VIA THE JATE-IS. POSITION LOCATION (PL) WILL GIVE AN ACCURATE PICTURE OF WHERE KEY WIL ENHANCE BATTLEFIELD REPLAY ANALYSIS IN SUPPORT OF OVERALL TRAINING CONDUCTED AT THE JATC. THIS EVENT DATA WILL PROVIDE UNIT TRAINING FEEDBACK VIA AAR INFORMATION INPUT AND UNIT TAKE HOME PACKAGES ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO SUPPORT TRAINING. THE JRTC-IS WILL ENABLE THE OBSERVERICONTROLLER (0/C) TO DISPLAY SELECTED SEGMENTS OF THE BATTLE, SCORED COMBAT FROM LOW TO HIGH INTENSITY. THE JRTG IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E., FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCES). THE THE GTG STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN SCENARIOS THAT REALISTICALLY REPLICATE LEADERS, UNITS, AND EQUIPMENT WERE LOCATED IN THE COURSE OF A TACTICAL ENGAGEMENT TO SUPPORT THE DEVELOPMENT OF TRAINING FEEDBACK FOR THE AAR. THE FYOO PROGRAM ACQUISITION FOR JRTC-IS WILL PROVIDE CRUCIAL PROGRAM SUPPORT, INCLUDING INDEPENDENT VERIFICATION AND VALIDATION (IV&V), DEFENSE CONTRACT MANAGEMENT ADMINISTRATIVE OFFICE, (DCMAO), AND INTEGRATIONITESTING SUPPORT. THESE EFFORTS ARE HAND GRENADE AND CLAYMORES WILL PROVIDE REQUIRED WEAPONS EFFECTS AND CASUALTY ASSESSMENT FOR THESE GOMBAT MULTIPLIERS, PARTICULARLY IN THE MOUT ENVIRONMENT.

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P.1 SHOPPING LIST		PAGE NO 3
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(MA6601)			15686000									
	IDENT. CODE	A										
WEAPON SYSTEM COST ANALYSIS EXHIBIT (P.5) JOINT READINESS TRAINING CENTER (JRTC)	WEAPONS SYSTEM Cost elements	2. JRTC - FT CHAFFEE, AR/FT POLK, LA	A. JRTC INSTRUMENTATION SYSTEM (JRTC-IS) A. JRTC-IS IN-HOUSE GOVERNMENT FNGINFFRING SUPPORT	A. JRTC-IS SUPPORT OGA A. JRTC-IS FIRST ARTICLE TEST SUPPORT	A. JRTC-IS PROVISIONING ITEMS A. JRTC-IS SYSTEM SUPPORT A. JRTC-IS ECPS	B. JRTC MILES CLAYMORE/GRENADE	C. JRTC MOUT INSTRUMENTATION SYSTEM C. JRTC MOUT INSTRUMENTATION IN-HOUSE GOVERNMENT ENGINEERING SUPPORT	D. JRTC LIVE FIRE TARGET				

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BUDGI	BUDGET PROCUREMENT HISTORY. AND PLANNING EXP	STORY. AND P	LANNING EXP (P-5A)	(1			A. DATE	FEBRUARY 1995		
			C. P-1 ITEM NOMENCLATURE JOINT READINESS TRAINING CENTER (JRTC)	RE INING CENTI	ER (JRTC)					(MA6601)
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D. REMARKS

DD Form 2446·1, JUL 87

PREVIOUS EDITIONS ARE OBSOLETE ITEM NO. 155 PAGE 5 OF 22

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EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

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REPORTS CONTROL SYMBOL							DATE	FFBRIIABY 1995	
DD-COMP(AR)1092			<b>BUDGET ITEM JUSTIFICATION SHEET</b>	STIFICATION SHE	ET				
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	VITY IY 3		-	P-1 ITEM NOMENCIATURE NATIONAL TRAINING CENTER	ITURE NING CENTER				
								(MA6601)	_
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FΥ	FY 00	FY 0.1
QUANTITY									
COST (IN MILLIONS)	4.4	10.0	5.5						
DESCRIPTION:									

PROVIDES REALISTIC COMBAT TRAINING WITH LONGTERM TRAINING BENEFITS, THEREBY INCREASING THE UNIT'S COMBAT READINESS. THE OPFOR SURROGATE VEHICLE (OSV) WILL PROVIDE GENERATED BY PLAYERS ON THE BATTLEFIELD BACK TO THE NTC CORE INSTRUMENTATION SYSTEM. THE UPGRADE PROGRAM FOR ROMS WILL INCORPORATE THE LATEST DESIGNS IN DATA EVALUATORS TO USE DURING THE TRAINING EXERCISES. THE NTC RANGE DATA MANAGEMENT SYSTEM (RDMS) IS A BI-DIRECTIONAL COMMUNICATION SYSTEM THAT RELAYS EVENT DATA AND CONTROL SYSTEM (RMCS) PROVIDES BACKBONE COMMUNICATIONS AND TERMINAL EQUIPMENT FOR MONITORING, COLLECTING, RECORDING AND EDITING TACTICAL VOICE AND DATA COMMUNICATION SYSTEMS AND PROVIDE PROCUREMENT OF REQUIRED NUMBER OF DATA CONTROL INTERFACES FOR FULL OPERATIONAL EFFECTIVENESS. | THE NTC RANGE MONITORING VISUAL AND TACTICAL SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING ENVIRONMENT. THE OSV WILL PROVIDE KEY RECOGNITION SIGNATURES BETWEEN THE AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEMS. THIS EFFORT WILL ENHANCE CTC AFTER ACTION REVIEWS (AARS) FOR UNITS PARTICIPATING IN MILES BASED THE ARMY CONTINUES WITH THE IMPLEMENTATION OF THE STRATEGY IN THE COMBAT TRAINING CENTER (CTC) MASTER PLAN. INSTRUMENTATION SYSTEMS A'RE BEING PROCURED AND WHICH CAN BE CARRIED BACK TO THE UNIT AND USED FOR FOLLOW ON SUSTAINMENT TRAINING. THE CTC-IS/AGES II INSTRUMENTATION SYSTEM WILL PROVIDE A COMMON INTERFACE UPGRADED FOR THE THREE MANEUVER TRAINING CENTERS UNDER THIS PROGRAM TO PROVIDE THE CAPABILITY TO CAPTURE AND PROCESS THE ACTUAL TRAINING DATA AND PROVIDE COMPREHENSIVE AFTER ACTION REVIEWS. THIS PROCESS HAS BEEN PROVEN TO PROVIDE VALUABLE FEEDBACK TO THE UNIT COMMANDERS AND SOLDIERS TRAINING AT THE CENTERS TACTICAL FORCE ON FORCE EXERCISES. IN ADDITION, THE INTERFACE WILL ALLOW FOR THE COLLECTION AND NEAR REAL TIME DISPLAY OF BATTLE CONTROLLING DATA FOR THE CTC COMMUNICATIONS. IT ALSO PROVIDES VOICE, DATA AND VIDEO COMMUNICATIONS BETWEEN VARIOUS TRAINING PERSONNEL AND TRAINING SITES.) OVERALL, THIS CTC EXPERIENCE OF THE BMP:2 WITH BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP:2 ONBOARD WEAPON SYSTEMS.

## JUSTIFICATION:

SUPPORT TRAINING. THE CTC-IS/AGES II INSTURMENTATION SYSTEM FOR THE FY96/FY97 PROGRAM INCLUDES EFFORT TO INCORPORATE THE CTC INSTRUMENTATION INTERFACE INTO THE SCENARIOS THAT WILL REALISTICALLY REPLICATE COMBAT FROM LOW TO HIGH INTENSITY. THE NTC IS DESIGNED TO SUPPORT TRAINING OF THE ARMY LIGHT INFANTRY TASK FORCES (I.E. THE CTC STRATEGY PROVIDES THE ARMY WITH A COMPREHENSIVE MECHANISM TO CONDUCT TRAINING FROM THE INDIVIDUAL LEVEL TO THE CORPS COMMANDER AND BATTLE STAFF, IN FOCUSES ON THE INDIVIDUAL SOLDIER AND DISMOUNTED SMALL UNIT PERFORMANCE). THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS TO AGES II PRODUCTION SYSTEMS. THE EFFORTS OF THE NTC RDMS WILL PROVIDE NEEDED ENHANCEMENT OF AFTER ACTION REVIEWS (AARS), RESULTING IN CRUCIAL IMPROVEMENT IN

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	DD Form 2454, JUL 88	

		A. APPROPRI	A. APPROPRIATION/BUDGET	B. WEAPON	N		C. MANUFACTURER NAME	TURER NAME	
(MA6601)		OPA - 3	LE/NU.	MUDELISE	MUDEL/SERIES/PUPULAH NAME		PLANI CILY/S	PLANI CIIY/SIA IE LOCATIO	MONTH/YEAR February 1985
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B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3			C. P.1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC)	JRE ENTER (NTC						
OTHER SUPPORT EQUIPMENT										(MA6601)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD & TYPE	ВУ	DATE	FIRST Delivery	QUANTITY	COST	AVAILABLE NOW	REV REQ'D	WHEN AVAILABLE
3A. NTC RDMS/FY93	MOTOROLA Scottsdale, az	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 93	MAR 95	-	12897000	YES	ON O	
3A. NTC RDMS/FY95	MOTOROLA Scottsdale, az	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	MAY 95	30101	006	4424	YES	ON N	
3A. NTC RDMS/FY96	MOTOROLA Scottsdale, az	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	0CT 95	0EC 95	099	4424	YES	ON.	
3B. CTC-IS/AGES II/FY95	INTERCOASTAL Mesa, az	SS/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	JUN 95	SEP 95	68	30267	ON	YES	MAY 95
3B. CTC-IS AGES II/FY96	INTERCOASTAL Mesa, az	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	FEB 96	APR 96	147	14667	ON.	YES	MAY 95
3C. NTC 0-CCS/FY94	HUGHES Torrance, ca	CJFP	NAVAL AIR WARFARE GENTER, ORLANDO, FL	APR 94	JUN 94		1000000	YES	ON	
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D. REMARKS										

**FEBRUARY 1995** 

A. DATE

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)

CTC-IS/AGES II UNIT COSTS FOR FY96 ARE LOWER THAN FY95 BECAUSE THE FY95 COSTS INCLUDE NON-RECURRING EXPENSES ASSOCIATED WITH STARTING PRODUCTION.

DD Form 2446-1, JUL 87

CURRENT DEVELOPMENT AND TEST STATUS   CURRENT CONTRICT MAY NOT BE SET ACTOR OF THE MANDEN CONTRICT MAY NOT BE SET ACTOR OF THE MAY NOT THE ACTOR OF THE MAY NOT THE A	CODE "B" ITEM DESCRIPTION	NC	DATE FEBRUARY 1995				REPORT CONTROL SYMBOL	OL SYMBOL
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FACILITY			MAN	MANUFACTERS NAME	SMAME				PRODUCI	PRODUCTION RATES	<b>~</b>		=	MONTHS TO	1S TO															YO.	<b>*</b>	_	MAN		2	TOTAL						
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REPORTS CONTROL SYMBOL							DATE	FEBRUARY 1995	1995
DD-COMP(AR)1092		1	BUDGET ITEM JU	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	ET				
APPROPRIATION / BUDGET ACTIVITY	HTY			P.1 ITEM NOMENCLATURE	LATURE				
OTHER PROCUREMENT: ARMY 3	۲3		-						
OTHER SUPPORT EQUIPMENT				OPPOSING-FORCES	OPPOSING-FORCES SURROGATE VEHICLE (OSV)	SLE (OSV)			
								4)	MA6601)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	<u>.</u>	FY 00	FY 01
QUANTITY									
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5.0

**COST (IN MILLIONS)** 

**DESCRIPTION:** 

NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY COMBINED BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BE MODIFYING THE M113A3 FULL-TRACKED ARMORED PERSONNEL CARRIER ARMS COMMAND (CAC) THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMODS AND INTERFACES, APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS (VISMODS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN MANEUVER EXERCISES. THE THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC TRAINING BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF THE EARLY USER ASSESSMENT AT NTC.

#### JUSTIFICATION:

THE OPPOSING FORCE SURROGATE VEHICLE WILL PROVIDE NEEDED REALISTIC SIMULATION OF THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE IN THE NTC TRAINING ENVIRONMENT, RESULTING IN CRUCIAL IMPROVEMENT IN TRAINING. Pages

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Page

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22

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PAGE NO

ITEM NO 155

DD Form 2454, JUL 88

P-1 SHOPPING LIST

**EXHIBIT P.40** 

WEAPON SYSTEM COST ANALYSIS			A. APPROPRIATION/BUDGET	ION/BUDGET	B. WEAPON		C. MANUFACTURER NAME	ER NAME	D. DATE	0.00
EXHIBIT (P.5)  OPPOSING FORCES SURROGATE VEHICLE (OSV)		(MA6601)	ACTIVITY TITLE/NO.   OPA - 3	NO.	MODEL/SERIES/PUPULAR NAME	UPULAH	FLANI GILTISTATE LUCATION	IE LUCATION	FEBRUARY 1995	r 1995
WEAPONS SYSTEM		FY 94	ату	CY 95	QTY	BY1 96	017	BY2 97	II TOT	QTY TOOK
COST ELEMENTS	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	A IO	IOIAL COSI
4. 0SV	8									
A. VEHICLE						298000	12 3576	298000	5	4470
B. PUBLICATIONS							200			36
C. PRODUCTION TESTING							149			222
D. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT					_ apon on apon on _ a		130			225
. E. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT							45			45
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BUDG	BUDGET PROCUREMENT HISTORY AND PLANNING EX	TORY AND P	LANNING EXI	<b>&amp;</b>			A. DATE	FEBRUARY 1995	5	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT FOLIPMENT			C. P-1 ITEM NOMENCLATURE OPPOSING-FORCES SURROGATE VEHICLE (OSV)	JRE RROGATE VE	HICLE (OSV)					MASSOTI
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
4. OSV										
A. VEHICLE/FY96	RED RIVER ARMY DEPOT TEXARKANA, TX	C/FFP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	JUN 97	12	298000	NO		JUN 95
A. VEHICLE/FY97	RED RIVER ARMY DEPOT TEXARKANA, TX	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 NON	DEC 97	15	298000	NO		JUN 95
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D. REMARKS										

DD Form 2446-1, JUL 87

PREVIOUS EDITIONS ARE OBSOLETE ITEM NO. 155 PAGE 16 OF 22

P.1 SHOPPING LIST

Page of Pages EXHIBIT P.5A PROCUREMENT HISTORY AND PLANNING

.8. 300D	CODE "8" ITEM DESCRIPTION		DATE FEBRUARY 1995			- E	REPORT CONTROL SYMBOL DD-COMP(AR) 1092	SYMBOL 1092
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	> m		P-1 ITEM NOMENCLATURE NATIONAL TRAINING CENTER (NTC) OPFOR SURROGATE VEHICLE (0SV)	NTER (NTC) ICLE (OSV)				(MA6601)
CURRENT DEVELOPMENT AND TEST STATUS	r status							
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		CURRENT	LAST REPORTED		REASON FOR DELAY	OR DELAY		
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (IOT&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLANJACTUAL PLANJACTUAL PLANJACTUAL DP) ONS	FEB 95 N/A N/A JUNE 95	AUG 91 DEC 93 N/A SEP 94					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	IR SERVICE USE	MILESTONE III SEP 95						
EQUIPMENT ITEM(S) TO BE REPLACED	03							
M551 OPFOR VEHICLE								
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	EM(S) EQUIPMENT TO	O BE REPLACED						
INCREASED MTBF AN	O USEFUL LIFE. DEC	INCREASED MTBF AND USEFUL LIFE. DECREASED OVERHAUL COSTS.	S. BETTER REPLICATION OF THREAT.	THREAT.				
DEVELOPMENT CONTRACT INFORMATION	ATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)	S IN MILLIONS)				
CONTRACTOR NAME	PLAN	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
RED RIVER ARMY DEPOT (RRAD)	TEXARKANA, TX		M113 0SV	1.4	9'0			
TOTAL RDT&E FUNDING				1.4	0.5			
NEMARKS:  1. DEV TEST & EVAL (DT&E): AUG 91 DATE LAST REPORTED WAS FOR THE TECHNICAL FEASIBILITY TEST. NEW DATE IS FOR THE DT&E.  2. INITIAL OPER TEST & EVAL (IOT&E): DEC 93 DATE LAST REPORTED WAS FOR THE INITIAL USER EVALUATION. THE TEST INTEGRATION WORKING GROUP HAS DETERMINED THAT THE IOT&E IS NOT REQUIRED. SHOULD HAVE BEEN "NIA" LAST REPORTED.  3. AVAIL DATE OF TECH DATA PKG (TDP): SEP 94 LAST REPORTED WAS FOR THE INITIAL TDP. JUNE 95 IS FOR THE VALIDATED TDP.	G 91 DATE LAST RE T&E): DEC 93 DATE QUIRED. SHOULD H KG (TDP): SEP 94 LA	PORTED WAS FOR THE TI LAST REPORTED WAS FO AVE BEEN "N/A" LAST RE ST REPORTED WAS FOR I	ECHNICAL FEASIBILITY TEST. NEW DATE IS FOR THE D'R THE INITIAL USER EVALUATION. THE TEST INTEGRA'PORTED.	NEW DATE IS FOR THE DT8 ION. THE TEST INTEGRATIC OR THE VALIDATED TOP.	ie. On working group	HAS DETERMII	NED	
		P.1 SHOPPING LIST				Page	jo	Pages
DD Form 2443, JUL 88	ITEM NO 155	PAGE NO 17	0F 22				EXHIBIT P.19	,
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REPORTS CONTROL SYMBOL Dd.Comp(Ar)1092	CONTI	ROL SY 192	YMBOL					٠,							۵.	RODU	CTION	SCHE	PRODUCTION SCHEDULE														DA	DATE FEBRUARY 1995	RUAR	Y 1995	1995
APPROPRIATION / BUDGET ACTIVITY	IATION	1,80	JOET AL	TINITY													P-1	TEM NO	MENCL	TURE																	
OTHE	SUPP.	UREM Ort e	OTHER PROCUREMENT: ARMY 3 Other Support Equipment	RMY 3													00	)SING-F	OPPOSING-FORCES SURROGATE VEHICLE (OSV)	SURRO	GATEV	EHICLE	(OSA)											(WARRILL)	2		
		$\vdash$		E	100FIAM	PROBRAM GUANTITY		.	<b> </b>		FISCAL YEAR 98	LYEAR	88						FISC	FISCAL YEAR 97	487						H	SCAL	FISCAL YEAR 88	اوا						-	_
FACILITY	> - 3		t 3	E 8	E 8	E 8	E 8	ACCEPT THOM		88 PF 89 PF			CALE	CALENDAR Y	YEAR 96	<b>6</b>					CALE	CALENDAR YEAR 97	YEAR 6	<u> </u>						CALEA	UDAR	CALENDAR YEAR 98	65			< - "	۳ <u>۳</u>
			<u> </u>								CT 180	/ DEC	OCT MOY DEC JAN FEB MAR			N JOH	1	108 SEP	APR MAY JUN JUL AUB SEP OCT NOV DEC			JAN FEB MARI APR MAY JUN JUL AUG SEP OCT NOV DEC	THE STATE OF THE S	TAY JOI	33	A 106	130	NON.	1 2 3 E	N FEB	MAR	APR R	JAN FEB MAR APR MAY JUM	JUL AUG	935 90)		, <b>=</b>
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		5	UNCLASSIFIED				
REPORTS CONTROL SYMBOL DD-CCMP(AR)1092	BUDGET		EM JUSTIFICATION SHEET	ON SHEET		DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE BATTLE COMMAND TRAININ SYSTEM (AARS)	P-1 ITEM NOMENCLATURE BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	(BCTP) AFTER ACTIC	ON REVIEW	(HA6601)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0
QUANTITY							
COST(IN MILLIONS)	1.9		1.9				

#### DESCRIPTION:

BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND PRESENTED DURING THE AAR.

#### JUSTIFICATION:

THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING DATA SOURCE PROVIDER FOR INSIGHT INTO AND IMPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMATICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.

Page of Pages	EXHIBIT P-40
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P-1 SHOPPING LIST	ITEM NO 155 PAGE NO 19 OF 22
	DD Form 2454, JUL 88

WEAPON SYSTEM COST ANALYSIS			A. Appropriation/Budget	dget	B. WEAPON		C. MANUFACT	MANUFACTURER NAME	D. DATE
EXHIBIT (P-5)	<b>∞</b> ≈	BCTP (MA6600)	OTHER PROCUREMENT: ARMY 3	WENT: ARMY 3	BATTLE COMMAND TRAINING PROG LOGICON, RDA (BCTP) AFTER ACTION REVIEW SYS ICALIFORNIA	TRAINING PROG	LOGICON, RDA CALIFORNIA		FEBRAURY 1995
Weapon System	Ident.	FY 94	Qtv	CY 95	Qtv	BY1 96	Öţţ	BY2 97	Oftv
	Code	Unit Cost	<b>Total Cost</b>	_,	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
5 BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	∢								
A BCTP CONFIGURATION HARDWARE		925000	2 / 1850						
B MACOM CONFIGURATION HARDWARE	· . •	,				700000	1 / 700		
C CORPS/DIV CONFIGURATION HARDWARE		<del> </del>				598000	2 / 1196		
D ENGINEERING SUPPORT	<del></del>		105						
-	-								
· -									
-		_							
			1955	-	0		1896		

	BUDGET PROC	CUREMENT	BUDGET PROCUREMENT HISTORY AND PLANNING		HIBIT (P-5A)			A. DATE	FEF	RY 1995
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3	DN/BUDGET ACT		OTHER SUPPORT EQUIPMENT		C. P-1 ITEM I BCTP) AFTER	C. P-1 ITEM NOMENCLA BATTLE COMMAND (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	BATTLE CO EW SYSTEN	C. P-1 ITEM NOMENCLA BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS)	UING PROGR	AM (MA6600)
Cost Element FISCAL YEAR	CONTRACTOR CONTRACT AND LOCATION METHOD & TYPE	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
5A BCTP AAR FY96	LOGICON, RDA SS/FP		NAVAL AIR WARFARE CENTER, Orlando, FL	Jul-94	Feb-95	2	925000 YES	YES		
5B MACOM AAR/ FY96	LOGICON, RDA SS/CP		NAVAL AIR WARFARE CENTER, Orlando, FL	Nov-95	Jan-96	, <del>[-</del>	ON 000007	ON		Jul-95

Jul-95

598000 NO

2

Jan-96

Nov-95

NAVAL AIR WAKFARE CENTER, Orlando, FL

LOGICON, RDA SS/CP

5C CORPS/DIV

AAR/FY96

#### D. REMARKS

THE SPECIFICATIONS ARE AVAILABLE FOR CURRENT SOFTWARE. SPECIFICATIONS MAY BE REVISED DUE TO SOFTWARE CHANGES PRIOR TO FY96 PROCUREMENT.

DD Form 2446-1, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

Exhibit P-5A Procurement History and Planning

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1	ACILITY #0		<b></b>	-	H	H	ŀ	H	- 1	TOW TO	¥ #			3	ENDAR	YEAR	76						CALL	ENDAR	YEAR	8						3	ALEHD	AR YE	AR 96			ı		
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TOTAL MONTHLY PRODUCTION   D   S   D   D   D   D   D   D   D   D													<del></del>																											000
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MANUFACTURERS NAME		TOTAL	- <b>3</b>	THLY PRO	DOUCT.	₹				0	S	_	-		_					_1	2		$\perp$		+	1		;+		`[	Ì	, †	-	1	1	-	į:		1	1
MANUFACTURERS NAME												5	<u>10</u>	SC		$\overline{}$	¥	₹		SEP		<u>6</u>		FEB	AR API	¥		3		8	ğ	DEC 3		¥	APR	Ş	2	ş		Į
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SIMULATION	N AND TRAIN	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	STIFICATION (	\$000)			Date	FEBRUARY 1995	15
Appropriation/P-1 Line Item	Line Item		Weapons System (if applicable)	applicable)		Equipment Nomenolature	ature		3d
OPA 3 CTC	OPA 3 CTC INSTRUMENTATION SUPPORT	TION SUPPORT				MABBBOD JRTC:IS	C·IS		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	32.5	8.7	4.6						45.8
RDT&E	8.4		1.0						9.4
0\$8	5.5	8.1	4.3	4.6	4.6	4.9	4.9	4.0	40.9
0111111	TO THE PERCENTION.	colotion.							

TRAINING SYSTEM DESCRIPTION:

OPERATIONAL REQUIREMENTS OF THE JRTC. WHILE THE OVERALL ARCHITECTURE WILL BE SIMILIAR TO THE OTHER CTCs, THE LIGHT INFANTRY AND SPECIAL OPERATIONS FORCES GENERATE A STRIGENT SET OF TECHNICAL PERFORMANCE REQUIREMENTS. THE JOINT READINESS TRAINING CENTER INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SUPPORT THE UNIQUE

	EXHIBIT-43, PAGE 1 of 6	P.43 Simulator & Training Device Justification	
PAGE NO.	6	<b>5</b>	
P.1 SHOP LIST	ITEM NO.		

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	IICE JUSTIFICAT	10N (\$000)							Date	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Wespon System (if applicable)	em (if applic	able)		IOC Date	Equipme	Equipment Nomenclature	2		PE	
Training			Ready for	Average	ā	Auriso Prior Years	MAG	Current Year	Bar	Budget Year 1		644/15 Budget Year 2
Device		Delivery	Training	Student						Đ		
<b>by Туре</b>	Site	Date	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
JRTC-IS	FT POLK, LA	4 <b>0</b> FY96	40FY96	N/A	-	32528		8657		4552		
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			P.1 SHOP LIST ITEM NO.		PAGE NO.			EXHIBIT-43, PAGE 2 of 8	PAGE ;	2 of B		
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SIMILIATION AND TRAINING DEVICE JUSTIFICATION (\$000)	DEVICE	JUSTIFICA	TION (\$C	(001				_ <del></del>	Date	FEB	FEBRUARY 1995	1995
Training Device by Type						Weapon System (if applicable)	ı (if appli	cable)				
OPA 3 CTC INST SPT												
Description/Justification												
MABBOO JRTC-IS												
	P.	Prior Years	3	Current Year	Bud	Budget Year 1	Bud	Budget Year 2	Cost	Cost to Complete	<u>=</u>	Total Cost
Financial Flan	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HARDWARE COSTS												
Device (Hardware)	-	32291										
ECOs				2700								
Nonrocurring												
GFE												
Other (Specify) COST GROWTH				3007		3700						٠.
Total Hardware Costs		32291		2002		3700						
SUPPORT COSTS												
Special SE												
Integrated Logistics Support				2300		352						ξ <u>.</u>
Other (Specify) TESTING		237		650		200	,					
Total Support Costs		237		2950		852	· ·					
Software/Courseware												
TOTAL COSTS		32528		8657		4552						
		P.1 SHOP LIST ITEM NO.			PAGE NO.			EXHIBIT-43, PAGE 3 of 6	3, PAGE	3 of 6		
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SIMULATIO	N AND TRAIN	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	STIFICATION (	\$000)			Date	FEBRUARY 1995	36
Appropriation/P-1 Line Item	Line Item		Wespons System (if epplicable)	epplicable)		Equipment Nomenclature	ature		PE
OPA 3 CTC	OPA 3 CTC INSTRUMENTATION SUPPORT	TION SUPPORT				MAGGOO JRTC MOUT.IS	C MOUT.IS		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc		2.8	3.9	9.0	4.0		,		11.3
RDT&E		1.4	1.0						2.4
\$\$0		3.0	2.0	2.0	2.0	2.0	2.0	2.0	15
TRAINING	TRAINING SYSTEM DESCRIPTION:	CRIPTION:							

THE JOINT READINESS TRAINING CENTER (JRTC) MILITARY OPERATIONS IN URBAN TERRAIN (MOUT) INSTRUMENTATION SYSTEM WILL DEVELOP AND FIELD AN INSTRUMENTATION SYSTEM TO SATISFY THE UNIQUE OPERATIONAL REQUIREMENTS FOR A MOUT ASSESSMENT AT THE JRTC.

	EXHIBIT-43, PAGE 1 of 6		P.43 Simulator & Training Dovice Justification	
PAGE NO.		<b>4</b> a		
P-1 SHOP LIST	ITEM NO.	155 A	•	_
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Page   Page	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	VICE JUSTIFICATI	ON (\$000)							Date	FEBRUARY 1995	1995	
Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Prior Years   Training   Tra	Appropriation/P.1 Line Itom		Weapon Syst	em (if applica	ble)		OC Date	Equipme	nt Nomenclatur			3	
Situs   Date   Throughout   Gust   Current Veer   Budget Veer   Throughout   Guy   Cost   Gty   Cost   Cost   Gty   Cost   Cost   Gty   Cost   Cost   Gty   Cost	OPA 3 CTC INST SPT						20FY96	MAGG	OO JRTC MOUT	:IS			144715
Site   Date   Throughput   Gty   Cost   Gt	Training		Delivery	Ready for	Average Student	P	or Years	n C	rent Year	Buc	lget Year 1	Bud	get Year 2
FT POLK, LA 2GFY96 2GFY96 NIA 1 2825 1 3860 1	by Type	Site	Date	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
FT POLK, LA ZOFY96 NIA NIA 1 2825 1 3860 1 1													
PAGE NO. 5a 5a	JRTG-IS	FT POLK, LA	20FY96	20FY96	N/A			<b>,</b>	2825	1	3860	-	611
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SIMULATION AND TRAINING DEVICE JUSTIFICATIO	DEVICE	JUSTIFIC/	ATION (\$000)	000)					Date	FEB	FEBRUARY 1995	995
Training Device by Type						Weapon System (if applicable)	m (if appl	icable)				
OPA 3 CTC INST SPT												
Description/Justification												
MAGGOO JRTC MOUT IS												
Firancial	ď	Prior Years	3	Current Year	2	Budget Year 1	Bur	Budget Year 2	Cost	Cost to Complete	L	Total Cost
1	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HARDWARE COSTS			-	2825	_	3563	-	200				
Device (Hardware)												
ECOs												
Nonrecurring												
#5												
Other (Specify)								-				
Total Hardware Costs				2825		3563		200				
SUPPORT COSTS								******				٠.
Special SE						· · · · · · · · · · · · · · · · · · ·			-			
Integrated Logistics Support												-
Other (Specify) In-house Gov't Engineering Support Total Support Costs	ort					297		EE				<del></del>
Software/Courseware			70									
TOTAL COSTS				2825		3860		611				
		P.1 SHOP LIST ITEM NO.			PAGE NO.	·		EXHIBIT-43, PAGE 3 of 6	, PAGE :	3 of 6		
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SIMULATION	SIMULATION AND TRAINING DEVICE J	ING DEVICE JUS	USTIFICATION (\$000)	(000)			Date	FEBRUARY 1995	5
Appropriation/P-1 Line Item	Line Item		Weapons System (if applicable)	applicable)		Equipment Nomenclature	ature		PE
OPA 3 CTC INST SPT	INST SPT					MAGGOO NT	MA6600 NTC RDMS UPGRADE	H.	644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	16.4	7.3	3.3						27.0
RDT&E	1.6								1.6
S\$0	13.5	12.3	10.6	12.5	10.0	10.0	10.0	10.0	88.9

## TRAINING SYSTEM DESCRIPTION:

NATIONAL TRAINING CENTER - RANGE DATA MEASUREMENT SYSTEM UPGRADE (NTC-RDMS)

THIS PROJECT WILL MODERNIZE THE NTC POSITION LOCATION AND EVENT RECORDING SYSTEM. THIS UPGRADE WILL EXPLOIT THE INHERENT CAPABILITIES OF NEW SYSTEMS BEING FIELDED TO THE NTC. FURTHER, THIS EFFORT WILL INCREASE THE NUMBER OF INSTRUMENTED PLAYERS.

# \* NTC - INSTRUMENTATION SYSTEM SUPPORT (MA6600)

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P-1 SHOP LIST	PAGE NO.	
ITEM NO.		EXHIBIT-43, PAGE 1 of 8
155 A	7a	P.43 Simulator & Training Davice Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	JUSTIFICATION	(\$000)							Date	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)	em (if applica	lble)		IOC Date	Equipme	Equipment Nomenclature			PE	
OPA 3 CTCINST SPT						30 FY95	MAE	MA6600 NTC RDMS UPGRADE	S UPGRI	ADE	9	644715
Training Device		Delivery	Ready for Training	Average Student	Pr	Prior Years	Cal	Current Year	Bud	Budget Year 1	Bud	Budget Year 2
by Type	Site	Date	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
NTC RDMS UPGRADE	FT IRWIN, CA	20 FY95	30 FY95	NIA	_	16359		7267		3300		
		-										
-												
					•							
• · · · · · · · · · · · · · · · · · · ·			P.1 SHOP LIST ITEM NO.	.55	PAGE NO.	, 8a		EXHIBIT-43, PAGE 2 of 6	PAGE	2 of G		

SIMILIATION AND TRAINING DEVICE JUSTIFICAT	DEVIC	E JUSTIFICAT	110N (\$000)	(00)					Date	82	FEBRUARY 1995	995
Training Bayica by Type						Weapon System (if applicable)	n (if applic	able)				
OPA 3 CTC INST SPT												
Neserintion/Justification												
MASSOO NTC RDMS UPGRADE	***											
		Prior Years	Cur	Current Year	Bud	Budget Year 1	Bud	Budget Year 2	Cost	Cost to Complete	2	Total Cost
	atá	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HARDWARE COSTS												
Device (Hardware)	-	15147	006	3981	020	2876						
EC08												
Nonrecurring												
GFE												
Other (Specify)												
Total Hardware Costs												
SUPPORT COSTS	<u></u>											
Special SE		.,										
Integrated Logistics Support												
Other (Specify) ENG SPT		1212		3286		424						*******
Total Support Costs												_
Software/Courseware												
TOTAL COSTS		16359		7267		3300						
		P.1 SHOP LIST ITEM NO.			PAGE NO.			EXHIBIT-43, PAGE 3 of 6	, PAGE	3 of 6		
			155	A		9a						

SIMULATIO	N AND TRAINI	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	STIFICATION (4	1000			Date	FEBRUARY 1995	36
Appropriation/P-1 Line Item	Line item		Wespons System (if applicable)	applicable)		Equipment Nomenciature	ature		PE
OPA3 CTC	OPA 3 CTC INSTRUMENTATION SUPPORT	TION SUPPORT				MAGGOO CTC-IS/AGES II	ISJAGES II		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	0.4	2.7	2.2						5.3
RDT&E	1.6	0.15							1.75
\$\$0									
TRAINING	TRAINING SYSTEM DESCRIPTION:	CRIPTION:							

THE CTC-IS/AGES II SYSTEM PROVIDES A COMMON INTERFACE BETWEEN AGES II SYSTEMS AND THE CTC INSTRUMENTATION SYSTEM (CTC IS). THIS INTERFACE WILL INTERNALLY IDENTIFY TRAINING AND PROFICIENCY STRENGTHS AND WEAKNESSES AND TO TAKE CORRECTIVE ACTION TO IMPROVE THEIR OVERALL COMBAT READINESS. MONITOR AND CONTROL AVIATION MANEUVER TRAINING, PRODUCE AFTER ACTION REVIEWS (AARs), STANDARDIZE EVALUATION OF AVIATION TRAINING PERFORMANCE AND PROVIDE DETAILED TRAINING FEEDBACK IN NEAR REAL TIME. ARMY AVIATION UNITS WILL USE THE PRODUCTS GENERATED AND SUPPORTED BY THIS SYSTEM TO

10aPAGE NO. 155 P.1 SHOP LIST ITEM NO.

EXHIBIT-43, PAGE 1 of 6

P.43 Simulator & Training Dovice Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	ICE JUSTIFICATI	ON (\$000)							Date	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Weapon System	m (if applicable)	ble)		IOC Date	Equipme	Equipment Nomenclature	2		PE	
OPA 3 CTC INST SPT						40FY95	MABBI	MABBOO CTC:IS/AGES II	ES II			644715
Training Davies		Delivery	Ready for Training	Average Student	- L	Prior Years	ā	Current Year	ā	Budget Year 1	æ	Budget Year 2
Бу Туре	Site			Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
·						-						
CTC-IS/AGES II	FT IRWIN, CA	40FY95	40FY95	NIA		395	88	2710	147	2200		
			-									
												·
										·		
			P-1 SHOP LIST ITEM NO.	55 A	PAGE NO.	11a		EXHIBIT-43, PAGE 2 of 6	, PAGE	2 of 6		

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Training Device by Type  OPA 3 CTC INST SPT  Description/Justification  MA6600 CTC-IS/AGES II  Financial Plan  Oty	Prior Years		-	7	Weapon System (if applicable)	ilum Ill	nahla)				
S II Oty	or Years					III appir	Campy				
S = Oty	or Years										
Oty	or Years										
Oty	r Years										
<u> </u>		Curr	Current Year	Budg	Budget Year 1	Bud	Budget Year 2	Cost	Cost to Complete		Total Cost
	Cost	Orty	Cost	Oty	Cost	Oty	Cost	Otv	Cost	Otv	Cost
HARDWARE COSTS											
Device (Hardware)		88	2694	147	2158					-	
ECOs											
Nonrecurring								-			
# 5											
Other (Specify)											
Total Hardware Costs			2694		2158						• •
SUPPORT COSTS	****	-									
Special SE											
Integrated Logistics Support											
Other (Specify) TESTING		······································	16								
ENGINEERING SPT	395				44						
Total Support Costs	395		16		44						
Software/Courseware											
TOTAL COSTS	395		2710		2200						
1.4	P.1 SHOP LIST			PAGE NO.							
	TEM NO.						EXHIBIT-43, PAGE 3 of 6	, PAGE :	3 of 6		
		155	A	Ĵ	ಇ						

			7 1101111	10001			at e	FFRRIIARY 1995	150
SIMULATION	A AND TRAIN	SIMULATION AND TRAINING DEVICE JUST	STIFICATION (SUCO)	suuu)					
Appropriation/P-1 Line Item	Line Item		Weapons System (if applicable)	applicable)		Equipment Nomenclature	ature		ם
OPA 3 CTC INST SPT	INST SPT					MA6600 NTC OSV	C OSV		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc			4.4	5.0	10.0	15.0	20.0	20.0	74.4
RDT&E	1.3	0.5							1.8
S\$0		0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.4
		1001-010							

### TRAINING SYSTEM DESCRIPTION:

SALIENT CHARACTERISTICS OF THE BMP-2 ON-BOARD WEAPON SYSTEM. THE VEHICLE WILL NOT HAVE GO-TO-WAR CAPABILITY. IT'S USE WILL BE LIMITED TO THE UNIQUE CONSISTED OF DEVELOPMENT OF A DESIGN, MANUFACTURE OF THE REQUIRED VISMODS AND INTERFACES, BUILDING AND TESTING THREE PROTOTYPES, AND SUPPORT OF MANEUVER EXERCISES. THE OBJECTIVES OF THE OPERATIONAL REQUIREMENTS DOCUMENT (APPROVED MAR 1992) WILL BE ACCOMPLISHED BE MODIFYING THE M113A3 (VISMODS), WILL PROVIDE THE KEY RECOGNITION SIGNATURES OF THE BMP-2. THE TRAINING VEHICLE WILL INCLUDE BOTH VISUAL AND MILES REPRESENTATION OF THE THE OPPOSING-FORCE SURROGATE VEHICLE IS DESIGNED TO VISUALLY AND TACTICALLY SIMULATE THE SOVIET BMP-2 INFANTRY FIGHTING VEHICLE (IFV) IN THE NTC FULL-TRACKED ARMORED PERSONNEL CARRIER (APC). THESE MODIFICATIONS, WHICH INCLUDE THE ADDITION OF A TURRET AND RELATED VISUAL MODIFICATIONS TRAINING ENVIRONMENT. THE OSV WILL BE USED BY THE OPPOSING FORCES (OPFOR) COMPONENT TO SIMULATE A SOVIET STYLE ARMORED FIGHTING VEHICLE IN TRAINING ENVIRONMENT OF A CTC. THE INITIAL PHASE, PROOF OF PRINCIPLE, WAS PERFORMED BY CAC THREATS, PM TRADE, AND RED RIVER ARMY DEPOT. IT THE EARLY USER ASSESSMENT AT NTG.

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P.1 SHOP LIST	PAGE NO.		_
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155A	13a	P-43 Simulator & Training Davice Justification	
			-

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	JUSTIFICATION	(\$000)							Pate	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)	em (if applica	ible)		loc Date	Equipme	Equipment Nomenclature			ЬE	
OPA 3 CTCINST SPT						30 FV97	MA	MAGGOO NTC OSV	_			644715
Training Device		Delivery	Ready for Training	Average Student	E	Prior Years	m <sub>O</sub>	Current Year	Bud	Budget Year 1	Bud	Budget Year 2
ву Туре	Site	_	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
NTC OSV	FT IRWIN, CA	30 FY97	30 FY97					-	12	4400	15	4998
		-										
,												
					:							
-				·								
											~==_	
			_									
-	_											
	-				-							4 £ .
	-		P-1 SHOP LIST ITEM NO. 15	5. A	PAGENO.	14 a		EXHIBIT-43, PAGE 2 of 6	PAGE 2	2 of 6		(t n ·

Weapon System (if applicable)	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	DEVICE	JUSTIFICA	TION (\$	(000					Date	FE	FEBRUARY 1995	1995
Prior Years   Current Year   Budget Year 1   Budget Year 2   Cost to Complete   Total	Training Device by Type						Weapon Syste	if appl	icable)				
Prior Years   Current Year   Budgut Year 1   Budget Year 2   Cost to Complete   Total I	OPA 3 CTC INST SPT												
Otty   Cost   Otty   Otty   Cost   Otty	Description/Justification												
Otty   Cost   Otty   Otty	MAGGOO NTC OSV	٠.											
Bupport  Sup	100	4	ior Years	J	rrent Year	Buc	lget Year 1	Bur	lget Year 2	Cost	to Complete	<u> </u>	otal Cost
Support  Support  State		Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
12 3576 15 4470  table 15 15 15 15 15 15 15 15 15 15 15 15 15	HARDWARE COSTS												
Support Support 155 175 175 175 176 179 122 1840 4400 4998 1	Device (Hardware)					12	3576	15	4470				
SS 500 36 175 270 175 270 1499 151 1810P LIST PAGE 3 OF 6	ECOs												
158 Support 36 36 36 370 370 370 370 370 370 370 370 370 370	Ronrecurring												
Support  Sup	GFE			· · ·									
Support  Sup	Other (Specify)												
Support  15	Total Hardware Costs												
Support 36 36 36 175 270 175 270 149 222 149 528 1 528 1 528 1 518HDT-43, PAGE 3 of 6	SUPPORT COSTS												
3S 500 36 270 175 270 149 222 8400 4998 EXHIBIT-43, PAGE 3 of 8	Special SE												·
Soc   36	Integrated Logistics Support								····				
175 270 149 222 824 528 1 4400 4998 1 EXHIBIT-43, PAGE 3 of 8	Other (Specify) PUBS			<del> </del>		. —	200		36				
149 222 824 528 824 528 4400 4998 F-1 8HOP LIST ITEM NO. EXHIBIT-43, PAGE 3 of B	ENGINEERING SPT					<del></del>	175		270				
P-1 SHOP LIST PAGE NO. EXHIBIT-43, PAGE 3 of 6	TESTING						149		222				
P-1 8HOP LIST PAGE NO.	Total Support Costs						824		528				
P-1 SHOP LIST PAGE NO.	Software/Courseware						<del></del>		···				
LIST PAGE NO.	TOTAL COSTS						4400		4998				
			P-1 SHOP LIST ITEM NO.			PAGE NO			EXHIBIT-43	PAGE	a of B		

							no.te		
	SIMUL	SIMULATOR AND TRAINING DEVICE JUSTIF	IG DEVICE JU	STIFICATION (\$000)	(\$000)			FEBRUARY 1995	ı
Appropriation/P-1 Line Item	1 Line Item		Weapon System (if appli	if applicable)		Equipment Nomenclature	slature		PE
0PA 3	CTC INSTRUMENTATION SUPPORT	ATION SUPPORT				BCTP AAR		_	844716
Fin Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total
Quantity									
Prec	1.9	•	1.9	0	0	0	•	0	63.8
RDT&E	1	•	•	0	0	c	0	•	
0&8								·	
TRAINING SYS	TRAINING SYSTEM DESCRIPTION:	## ## ## ## ## ## ## ## ## ## ## ## ##							

PRESENTATION CAPABILITIES IN SUPPORT OF SIMULATION EXERCISES. SIMULATION DATA DERIVED FROM THE EXERCISE SIMULATION SYSTEM IS CAPTURED AND BATTLE COMMAND TRAINING PROGRAM (BCTP) AFTER ACTION REVIEW SYSTEM (AARS) PROVIDES AUTOMATED INFORMATION COLLECTION, PROCESSING, AND PRESENTED DURING THE AAR. THE AARS ARE NEEDED TO MEET THE ARMY'S MISSION REQUIREMENTS FOR COMMAND AND CONTROL TRAINING AND DATA SOURCE PROVIDER FOR INSIGHT INTO AND SUPPORT TRAINING. THE AARS WILL INCREASE THE EFFECTIVENESS OF THIS TRAINING BY DRAMTICALLY INCREASING THE QUALITY AND QUANTITY OF FEEDBACK TO MPROVEMENTS IN TRAINING AND LEADER DEVELOPMENT. THE ARMY'S COMBINED ARMS TRAINING STRATEGY ALLOWS FOR THE USE OF SIMULATIONS AND TO THE USERS. THE FY96 FUNDS WILL PROCURE AAR HARDWARE SUITES FOR THE MACOMS, CORPS, AND DIVISIONS.

EXHIBIT-43, Page 1 of 8 P-43 Simulator & Training Beries Justifies **16a** AGE NO. 155 A I SHOPP LIST ITEM NO.

S	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)	AINING DEV	ICE JUSTIFI	CATION (P	'age 2)	(000\$)			9 6	FEBRUARY 1995	1995	
Appropriation(P-1 Line Item	0PA 3	Weapon System (if applicable)	f applicable)		10C Dete		Equipment BCTP AAR	Equipment Nomenclature BCTP AAR			34	644715
Training			Ready for	Average	E	Prier Years	Çar	Current Year	7.0	Buiget Year 1	ě	Budget Year 2
Device By Type	8ite	Delivery Date	Training Date	Student Threughpet	Oty	Geet	Oty	Cest	Oty	Cast	Oty	Cest
	NSC	Feb-95			2	1850						
	TBF	Jan-96							1	002		
	TBD	Jan-96							2	1196		
												٠.
		P.1 SHOPF LIST ITEM NO.			PAGE NO.							
			155 A		17a	_ 			EXHBI	EXHIBIT P.43, Page 2 of 6		

	NIS	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)	AININ	G DEVICE JUS	TIFICAT	10N (Page 3) (\$0	(00)			DATE	FEBR	FEBRUARY 1995
Training Device by Type, CTC INSTRUMENTATION SUPPORT	PORT	0PA 3			Weapon	Weapon System (if applicable)	able)					
Description/Justification		BCTP AAR								·		
Financial Plan		Prior Years	ا	Current Year	Ĺ	Budget Year 1		Budget Year 2	బ్	Cost to Complete		Tetal Cost
	à	Cost	aty	Cost	Oty	Cost	Oty	Cost	aty	Cost	aty	Cost
HARDWARE COSTS					· .				-			
Device (Hardware)	2	1850			6	1896						
ECO.												
Nonrocurring				-								
gre		-										
Other (Specify)												
Total Hardware Costs												
SUPPORT COSTS				-								
Special SE												
Integrated Logistics Support												
Other (Specify) Testing Support		105		-								
Total Support Costs	-	-										
Software/Courseware				-		-						
TOTAL COSTS		1966				1896	·					
		P.1 840PP 1831 При 155 A	5 A	Рлевио.	18a			EXHIB	EXHIBIT P-43, Page 3 of 6	ige 3 of 6		

			UNCLASSIFTED			-		
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	<b>89</b>	BUDGET ITE	M JUSTIF	TEM JUSTIFICATION SHEET	HEET	DA1	DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			T R	P-1 ITEM NOMENCLATURE TRAINING DEVICES, NONSYSTEM	E NSYSTEM			
								(NA0100)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1

#### DESCRIPTION:

COST(IN MILLIONS)

THE ARMY CONTINUES TO BUILD ON A MAJOR INITIATIVE, WITH THE FY96/FY97 NSTD PROGRAM, TO INTRODUCE REALISTIC AND EFFECTIVE SIMULATIVE TRAINING DEVICES INTO THE INDIVIDUAL AND UNIT TRAINING SETTING. THESE DEVICES BRING INTO PLAY MANY ASPE OF T COMBAT ENVIRONMENT (SMOKE, NOISE, CONFUSION, STRESS, ETC.) WHICH PROVIDE OUR SOLDIER THE VALUABLE EXPERIENCE OF BATTLEFIELD CONDITIONS IN A TRAINING ENVIRONMENT. THIS EFFORT INCLUDES THE ACQUISITION OF TRAINING SYSTEMS FOR MANEUVER SITUATION TARGET ENGAGEMENT SIMULATORS AND GAMI SIMULATIONS. DEVICES AND SIMULATIONS ARE BEING FIELDED TO MIN RESOURCE CONSUMPTION WHICH WILL EFFECT A DIRECT COST REDUCTION THROUGH CONSERVATION OF ENERGY AND AMMUNITION. THE REDUCTION OF AVAILABLE REAL ESTATE (RANGES AND MANEUVER AREAS) FOR TRAINING BEING EXPERIENCED BY BOTH ACTIVE A AND RESERVE COMPONENT UNITS NECESSITATES THE INCREASED USE DEVICES AND SIMULATIONS. THE DEVICES AND SIMULATIONS ACQUIRED UNDER THE NSTD PROGRAM ARE ESSENTIAL FOR THE ARMY TO ACHIEVE THE GOAL OF INCREASING TRAINING EFFECTIVENESS AND SUSTAINING COMBAT READINESS IN A CONSTRAINED TRAINING ENVIRONMENT.

112.2

4.76

6.06

71.0

102.7

71.6

85.3

78.8

#### JUSTIFICATION:

GUARDFIST 1), THE SIMULATED AREA WEAPONS EFFECTS SIMULATOR - RADIO FREQUENCY (SAWE-RF), THE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) AND THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY STYSTEM (THISSS/PGS). IN FY 96 THE PROGRAM WILL ALSO INITIATE THE ACQUISITION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS). COST AND TRAINING EFFECTIVENESS ANALYSES ARE PERFORMED ON PROPOSED PROJECTS RESULTING IN ONLY THOSE PROGRAMS DEMONSTRATING HIGH POTENTIAL PAYOFFS BEING PURSUED. SIMULATORS PROCURED UNDER THIS LINE ARE EITHER THE RESULT OF A DEVELOPMENT EFFORT OR THE PURCHASE OF A NON-DEVELOPMENTAL ITEM. FY96/97 NSTD PROGRAM WILL PROVIDE FOR THE CONTINUATION OF THE REMOTE TARGET SYSTEM (RETS), GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)			A. Appropriation/Budget Activity Title/No.	dget	B. WEAPON MODEL/SERIES/POPULAR	PULAR	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	R NAME LOCATION	D. DATE Month/Year
Training Devices, Non-System (NA0100)	VA0100	6	OPA3		NAME				February 1995
Weapon System	Ident	FY 94	4 Qty Total Cost	CY 95	5 Qty Total Cost	BY1 96	6 Qty Total Cost	BY2 97	7 Qty Total Cost
neuver Close Combat	3	1500 1110	21023	1000	48909	1600 11110	50915	1600 1110	66691
Multiple Integrated Laser Engagement System 2000	¥		0		12399		16517		38521
Air Ground Engagement System II	A		5786		17953		0		0
Guard Unit Armory Device for Full-Crew Interactive Simulation-Armor (Guardfist I)	¥		1061		9999		10133		6314
Tank Weapons Gunnery Sim Systems/Precision Gun Systems	¥		1412		11891		24265		21856
Thru-Sight Video-Worldwide	A		3295		0		0		0
Precision Gunnery Training System	A		2397		0		0		0
Close Combat Tactical Trainer	В		7072		0		0		0
NA0103 NSTD Command and Control			9361	, , , , ,	2983		4323		6026
Combat Service Support Training Simulation System	В		0		0		4323		6026
Brigade/Battalion Battle Simulation	∀	-	1951		1638				0
JANUS	A		3997		488		0		0
Corps Battle Simulation	A		2958	_	427		0		0
TACSIM/UAV/JSTARS	٧		455		430		0		0
								$\sqcap$	

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WEAPON SYSTEM COST ANALYSIS		**	A. Appropriation/Budget	dget	B. WEAPON		C. MANUFACTURER NAME		D. DATE
EXHIBIT (P-5)			Activity Title/No.		MODEL/SERIES/POPULAR	PULAR	PLANT CITY/STATE LOCATION	LOCATION	Month/Year
Training Devices, Non-System (NA0100)	VA0100		OPA 3		₹	ı	- 1	- [	ů
Weapon System	Ident	FY 94		36 AO			96 Qty		97 Qty
Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	lotal Cost	Unit Cost	l otal Cost	Unit Cost	lotal Cost
NA0105 NSTD Range Targetry			16801		10621		13067		13056
Remoted Target System	٧		8591		9621		13067		13056
Engagement Skills Trainer	Ą		0		1000		0		0
Area Weapons Scoring System	Ą		1935		0		0		0
Precision Range Integrated Maneuver Exercise	⋖		915		0		0		0
Weaponeer	¥		360						
Improved Moving Target Simulator	A		2000						
NA0106 NSTD Fire Support/Air Defense			31548		13751		3256		16887
Simulated Area Weapons Effects-Radio Frequency	¥		29541		9445		3256		16887
Guard Unit Armory Device for Full-Crew Interactive Simulation-Artillery (Guardfist II)	¥		2007		4306	·	0		0
NA0107 DATS									
Data Automated Tower Simulator (DATS)	A		41	-					
NOTE: FY95 (\$9059) Reprogrammed f rom NSTD (NA0100) to CTC (MA6600)									
			78774		76264		71561		102660

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092	8	BUDGET ITE	M JUSTIF	TEM JUSTIFICATION SHEET	знеет	DAT	DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3	=		-d NSI	P-1 ITEM NOMENCLATURE NSTD MANEUVER CLOSE COMBAT	tE COMBAT			
טומפא טטייטאן באטוימפאן								(NA0101)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
QUANTITY								
COST(IN MILLIONS)	21.0	48.9	50.9	66.7	55.7	56.4	59.6	59.6

**=** 

#### SCRIPTION:

THE TRAINING DEVICES/SIMULATIONS CONSOLIDATED UNDER THE MANEUVER CLOSE COMBAT SUBCATEGORY IN THE FY96/97 NSTD PROGRAM WILL BE UTILIZED IN MANEUVER AND ENGAGEMENT SIMULATION TRAINING. SPECIFIC DEVICES BEING PROCURED INCLUDE: MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000) IS AN UPGRADE OF THE BASIC MILES SYSTEM AND PROVIDES/ENHANCES REAL TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINERS, GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINING I (GUARDFIST I) WILL CONSIST OF INTERACTIVE SCENARIOS. THIS DEVICE WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND TRAINING EXERCISES. THE TANK WEAPONS GUNNERY SIMULATION SYSTEM/PRECISION GUNNERY SYSTEM (THGSS/PGS) IS USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAY/NIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. THE SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE GUN AND TOW WEAPONS SYSTEM, THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT.

#### JUST 1 FICATION:

COSTLY AMMUNITION AND INVALUABLE CREW AND INDIVIDUAL TRAINING. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS WHILE MINIMIZING OVERALL TRAIN GOVERALL TRAIN AND EVALUATE INDIVIDUAL AND COLLECTIVE COMBAT SKILLS FROM BASIC GUNNERY TABLES I-1V AND TACTICAL TABLES A-C THROUGH INTERMEDIATE GUNNERY TABLES V-VIII. THE TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. TWGSS/PGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. MILES 2000 REPLACES THE BASIC MILES SYSTEM AND WILL PROVIDE NEEDED REQUIRED TO DESTROY THE ENEMY THROUGH COMBINED ARMS OPERATIONS, PROVIDING INCREASED REALISTIC COMBAT TRAINING, UNLIMITED PRECISION GUNNERY PRACTICE WITHOUT EXPENDING COSTLY AMMUNITION AND INVALUABLE CREW AND INDIVIDUAL TRAINING. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS WHILE MINIMIZING OVERALL TRAINING COSTS. COLLECTIVELY, THE MANEUVER CLOSE COMBAT DEVICES/SIMULATIONS WILL SIGNIFICANTLY ENHANCE THE UNIT'S AND THE SOLDIER'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER ENHANCED TRAINING CAPABILITIES.

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			INC	UNCLASSIFIED				
REPORTS CONTROL SYMBOL							DATE FEBRUA	FEBRUARY 1995
DD-COMP(AR)1092			<b>3UDGET ITEM JU</b>	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	H			(NA0101)
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3	/ITY 3			P-1 ITEM NOMENCLATURE	LATURE			
OTHER SUPPORT EQUIPMENT				MULTIPLE INTEGR	MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	EMENT SYSTEM 2(	000 (MILES 2000)	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)		12.4	16.5	38.5	33.8	36.5	45.6	57.9
DESCRIPTION:								

THE MILES 2000 SYSTEM PROVIDES REAL-TIME CASUALTY EFFECTS NECESSARY FOR TACTICAL ENGAGEMENT TRAINING IN A FORCE-ON-FORCE TRAINING SCENARIO. MILES 2000 IS A REPLACEMENT OF ALL DIRECT-FIRE "BASIC" MILES DEVICES CURRENTLY FIELDED.

# MILES 2000 IS AN ENHANCEMENT OF BASIC MILES WHICH PROVIDES THE FOLLOWING CAPABILITIES:

- 8 ASPECT ANGLES TO ACCOUNT FOR SIDE, FLANK, CORNER AND REAR SHOTS. EACH ASPECT ANGLE WILL HAVE ITS OWN ASSOCIATED PROBABILITY OF KILL (PK)
- INCREASED PROGRAMMABILITY OF WEAPON CHARACTERISTICS, PROBABILITY OF KILL, RANGES, AND BASIC WEAPON AMMUNITION LOADS.
- EVENT RECORDING AND DISPLAY.
- DISCRETE PLAYER ID FOR ALL PARTICIPANTS. THIS WILL ENHANCE TRAINING IN TERMS OF AFTER-ACTION REVIEW, AND WILL AID IN IDENTIFYING AND
- REPLICATION OF ALL WEAPON CAPABILITIES AND VULNERABILITIES THROUGH LASER SIMULATION OF WEAPON FIRING EFFECTS, AND THROUGH PROGRAMMED SIMULATION OF VULNERABILITIES.
- ENHANCED AUDIO-VISUAL CUEING EFFECTS TO REPLICATE BATTLEFIELD WEAPON EFFECTS.

#### JUSTIFICATION:

COMPLETELY TESTED AND PRODUCTION QUALIFIED PRIOR TO AWARD OF FY96 PRODUCTION OPTION. FULL RATE PRODUCTION DEVICES WILL BE FIELDED AS BATTALION SETS BEGINNING IN BASIC MILES IS CURRENTLY OBSOLETE TECHNICALLY AND IS UNECONOMICAL TO REPAIR AND SUSTAIN. THE LIMITED NUMBER OF MILES 2000 DEVICES BOUGHT IN FY95 WILL BE AUGUST 96 AND WILL CONTINUE UNTIL MILES 2000 COMPLETELY REPLACES EXISTING MILES IN THE FIELD.

WEAPON SYSTEM COST ANALYSIS			A. APPROPRIATION/BUDGET	10N/BUDGET	B. WEAPON	PON		C. MAN	C. MANUFACTURER NAME	ER NAME	D. DATE	ш
EXHIBIT (P.S) MILITIPLE INTEGRATED LASER			ACTIVITY TITLE/NO.	NO.	MODEL	MODEL/SERIES/POPULAR	PULAR	PLANT	CITY/STA	PLANT CITY/STATE LOCATION	MONTHIYEAR	IYEAR
FNGAGEMENT SYSTEM 2000 (MILES 2000) (NA0101)			0PA - 3		NAME						FEBRUARY 1995	Y 1995
WEAPONS SYSTEM	IDENT.	FY 94	QTY	CY 95	OTV	<u>ا</u>	BY1 96		QTY	BY2 97	0	QTY
COST ELEMENTS	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	COST	UNIT COST	TOTA	TOTAL COST	UNIT COST	TOTA	TOTAL COST
1. MULTIPLE INTEGRATED LASER ENGAGEMENT	A											
SYSTEM ZOUD (MILES ZOUD)												
A. M16A2 W/VEST				3923	200	785	2641	1750	4622	2511	4125	10358
B. SNIPER RIFLE  C. COLIAD ALLTOMATIC WEADON			-	4296 4240	0 45	191	3063 3063	144	441	3311 2846	360	414 1025
C. SUCAD ACTOMATIC MEATON				9013	e 8	270	5084	178	902	4387	445	1952
E. TOW				16360	2	164	16360	20	327	16360	22	409
F. M60 MG				4298	22	107	3179	40	127	2862	20	143
G. M2 XMTR				4005	25	100	3245	22	178	2951	130	384
				7708	2	77	6576	75	493	6293	200	1259
I. M2/3 BRADLEY				17923	25	448	14298	129	1845	13620	425	5788
J. M1 SERIES				14203	27	383	10919	115	1256	10328	375	3873
K. MITS				2807	30	84	2807	750	2105	2807	1875	5263
L. CONTROLLER GUN				951	20	19	951	8	9/	951	200	190
M. SMALL ARMS ALIGNMENT FIXTURE (SAAF)				3670	4	15	3670	8	121	3670	82	312
N. VEHICLE SYSTEM TEST SETS (VSTS)				1075	4	4	1075	32	35	1075	70	75
O INITIAL PRODUCTION FACILITIES						3425					·	
P. NON-RECURRING ENGINEERING					·	3024			817			1706
Q. PRODUCTION TESTING						486						
R. DATA (PRODUCTION/UPDATING OF						544			268			469
MANUALS, E.I.C.) S. CONTRACTOR MANAGEMENT (LEVEL OF EFFORT)						1102		*******	909	-		545
						81			381			943
U. INTERIM CONTRACTOR LOGISTICS SUPPORT						282			1335			3302
V. OTHER GOVERNMENT AGENCIES						479			135			
ENGINEERING SUPPORT						<u> </u>						;
W. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT						286			265			Ξ
									-			
						12399			16517			38521
			ITEM 156	ITEM 156 PAGE 6 DE 65								

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19QN8	T PROCUREMENT HI	STORY AND F	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P.5A)	A)			A. DATE	FEBRUARY 1995	9	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			G. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	JRE Aser engac	SEMENT SYST	EM 2000 (MIL	ES 2000)			NA0101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST Delivery	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV RFO'D	IF YES, WHEN
1. MILES 2000										
A. M16A2 WIVEST/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NUC	200	3923	YES	NO No	
A. M16A2 W/VEST/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORI AND, FI	APR 96	AUG 96	1750	2641	YES	NO	
A. M16A2 W/VEST/FY97	UNKNOWN	0PTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 LOO	FEB 97	4125	2511	YES	ON	
B. SNIPER RIFLE/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NJC	10	4296	YES	ON O	
B. SNIPER RIFLE/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	90	3587	YES	ON.	
B. SNIPER RIFLE/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 TOO	FEB 97	125	3311	YES	0N	
C. SQUAD AUTO WEAPON/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NN	45	4240	YES	NO	
C. SQUAD AUTO WEAPON/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	144	3063	YES	0N	
C. SQUAD AUTO WEAPON/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	0CT 96	FEB 97	360	2846	YES	ON	

D. REMARKS CONTRACT AWARD DELAYED DUE TO EXTENDED SOURCE SELECTION PROCEDURES REQUIRED TO RESPOND TO DA DIRECTION ON MIL SPECS/STDS.

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P.1 SHOPPING LIST

Page of Pages EXHIBIT P.5A PROCUREMENT HISTORY APPLIANNING

B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE	JRE						
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	ASER ENGA(	BEMENT SYST	EM 2000 (MIL	ES 2000)			(NA0101)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT Method	CONTRACTED BY	AWARD Date	DATE OF FIRST	QUANTITY	UNIT	SPECS AVAILABLE	SPEC REV	IF YES, WHEN
		& TYPE			DELIVERY			MON	REO'D	AVAILABLE
1. MILES 2000										
D. LAW/AT-4/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	30N 96	30	9013	YES	NO.	
			CENTER, ORLANDO, FL					-	,	
D. LAW/AT-4/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER. ORLANDO. FL	APR 96	AUG 96	178	5084	YES	2	
D. LAW/AT-4/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	96 T30	FEB 97	445	4387	YES	NO	
			CENTER, ORLANDO, FL		-					
E. TOW/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	36 NOC	10	16360	YES	NO NO	
			CENTER, ORLANDO, FL							
E. T0W/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	20	16360	YES	<b>N</b>	
E. T0W/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	0CT 96	FEB 97	25	16360	YES	NO	
			CENTER, ORLANDO, FL							
F. M60 MG/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	30 NUC	25	4298	YES	NO .	
E. MGO MG/EV96	UNKNOWN	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	APR 96	AUG 96	40	3179	YES	N	-
			CENTER, ORLANDO, FL							
F. M60 MG/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	0CT 96	FEB 97	20	2862	YES	ON	
										-

A. DATE FEBRUARY 1995

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIB

D. REMARKS

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BUDG	ET PROCUREMENT HIS	STORY AND P	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	A)			A. DATE	FEBRUARY 1995	S.	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	JRE .aser enga	GEMENT SYST	EM 2000 (MIL	ES 2000)			(NA0101)
COST ELEMENT/ FISCAL YFAB	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF	Olivantity	TINU	SPECS		IF YES,
		& TYPE	0	חאונ	DELIVERY	uuaniii t	1600	AVAILABLE NOW	REV REQ'D	AVAILABLE
1. MILES 2000										
G. M2 XMTR/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NUC	25	4005	YES	NO	
G. M2 XMTR/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	52	3245	YES	ON	*
G. M2 XMTR/FY97	UNKNOWN	OPTION	GENTER, URLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 TOO	FEB 97	130	2951	YES	0N	
H. M113 APC/FY95	UNKNOWN	CJFP	NAVAL AIR WARFARE	MAR 95	96 NUC	01	7708	YES	ON	
H. M113 APC/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	75	6576	YES	NO	<u>- 1944 - 18</u>
H. M113 APC/FY97	UNKNOWN	OPTION	CENTER, ORLANDO, FL	96 TOO	FEB 97	200	6293	YES	0N	
I. M2/3 BRADLEY/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NOC	25	17923	YES	0.0	
I. M2/3 BRADLEY/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	129	14298	YES	NO	
I. M2/3 BRADLEY/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 TOO	FEB 97	425	13620	YES	ON	
									-	
D. REMARKS										

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EXHIBIT P-5A PROCUREMENT HISTORY AVERANNING

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	JRE .aser enga(	SEMENT SYST	EM 2000 (MILI	ES 2000)				
OTHER SUPPORT EQUIPMENT										(NA0101)	
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF	7.1.1	UNIT	SPECS	SPEC	IF YES,	
FISCAL YEAR	AND LUCATION	METHUU & TVPF	λЯ	DAIE	HKS!	GUANIIY	COSI	AVAILABLE	REV REO'N	WHEN	
		71118			Orrive.				200	AVAILABLE	_
1. MILES 2000	4										
J. M. SERIES/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NOC	27	14203	YES	ON ON		
			CENTER, ORLANDO, FL			**					
J. M1 SERIES/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	115	10919	YES	<b>S</b>		
J. M1 SERIES/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	0CT 96	FEB 97	375	10328	YES	ON.		
			CENTER, URLANDU, FL								
K. MITS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NOC	30	2807	YES	8		
		1	CENTER, ORLANDO, FL	1		1	1		:		
K. MITS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	APR 96	AUG 96	750	2807	YES	2		
K. MITS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	0CT 96	FEB 97	1875	2807	YES	ON N		
			CENTER, URLANDU, FL								
L. CONTROLLER GUN/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NOC	20	951	YES	NO.		
1. CONTROLLER GUN/FY96	UNKNOWN	OPTION	GENTER, URLANDU, FL NAVAL AIR WARFARE	APR 96	AUG 96	08	951	YES	ON ON		
			CENTER, ORLANDO, FL								
L. CONTROLLER GUN/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE	0CT 96	FEB 97	200	951	YES	ON.		
			LENIER, URLANDU, FL						,		
D. REMARKS											

A. DATE FEBRUARY 1995

(P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXH

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BUDGI	ET PROCUREMENT HI	ISTORY AND P	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	A)			A. DATE	FEBRUARY 1995	95	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3			C. P-1 ITEM NOMENCLATURE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	JRE ASER ENGAG	SEMENT SYST	TEM 2000 (MIL	ES 2000)			
OTHER SUPPORT EQUIPMENT										(NA0101)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD & TYPE	ВУ	DATE	FIRST Delivery	DUANTITY	COST	AVAILABLE NOW	REV Reo'd	WHEN AVAILABLE
1. MILES 2000										
M. SAAF/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NAC	4	3670	YES	ON	
M. SAAF/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	33	3670	YES	0N	
M. SAAFJFY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 TOO	FEB 97	82	3670	YES	ON.	
N. VSTS/FY95	UNKNOWN	C/FP	NAVAL AIR WARFARE	MAR 95	96 NNC	4	1075	YES	NO	
N. VSTS/FY96	UNKNOWN	OPTION	NAVAL AIR WARFARE	APR 96	AUG 96	32	1075	YES	ON.	
N. VSTS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	0CT 96	FEB 97	70	1075	YES	NO	
									٠.	
D. REMARKS										

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APPROPRIATION / BUDGET ACTIVITY	ATION	1 BG	JOET AC	TIVITY													P.1 ITI	EM NO	MENCL	P.1 ITEM NOMENCLATURE																	
OTHER	PROCUI	REME	OTHER PROCUREMENT: ARMY 3	HY 3													MULTI	PLE IN	TEGRA	MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM 2000 (MILES 2000)	ISER EI	NGAGE	MENT	SYSTE	EM 20(	IN) 00	LES 2(	(00)							Z	(NA0101)	
5			UINES SUFFURI EUUITMEN		PROGRAM QUANTITY	MANTIT					FISC	FISCAL YEAR 94	R 94			1			FISC	FISCAL YEAR 95	R 95	$\  \ $			$  \  $	$  \  $	П	E .	FISCAL YEAR 96	88							
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	2	202		5						7	OCT NO	2	W		3	3	JUL AUG		ğ	SEP OCT NOV DEC		1 E	JAN FEB MAR APR		MAY JUN JUL	¥	88	200	20	AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN	8	AA AA	E E		JUL AUG	8	
E A CHITT		*	MANNEACTURERS NAME	TIRERA	3				PRODUCTION RATES	NRATES		_	MONTHS 10			] L	J - I		I EN L	PROCUREMENT LEAD TIME	1 (				REMARKS: BASED ON PROJECT UPON AWARD OF CONTRACT WITH PRODUCTION BATES CONTINIED.	BASE OF CON	TRACT	OJECTIK WATH A ISD:	REMARKS: BASED ON PROJECTIONS FROM BCI UPON AWARD OF CONTRACT WITH ACTUAL DATA. PRODUCTION PATES CONTINIED:	BASED ON PROJECTIONS FROM BCE ACTUAL PRODUCTION SCHEDULE 1-85 WILL BE SUPPLIED Of Contract with actual data. Aats continied:	CTUAL	RODUC	TION SC	HEDULE	1.8.5 W	11 BE SI	184
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APPROPRIATION / BUDGET ACTIVITY	/ITY			P.1 ITEM NOMENCLATURE	ATURE				
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	က			AIR GROUND ENGA	AIR GROUND ENGAGEMENT SYSTEM (AGES II)	AGES II)			(NA0101)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99		FY 00	FY 01
OUANTITY									
COST (IN MILLIONS)	5.8	17.9				-			
DESCRIPTION:									

THE FIRE CONTROL COMPUTER (FCC), 1553 BUS, NAVIGATION SYSTEM AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE), EVENT RECORDING FOR AFTER ACTION REVIEWS, BUILT IN TEST AND ORDNANCE. AGES II SYSTEM FEATURES INCLUDE: EYE SAFE LASER RANGE FINDING, EYE SAFE DESIGNATION (FOR LASER GUIDED MUNITIONS - HELLFIRE AND COPPERHEAD), INTERFACES TO CHARACTERISTICS, WEAPON CHARACTERISTICS AND WEAPONS EFFECTS OF THE PLATFORM BEING SIMULATED. THE AGES II TRAINING DEVICES PROVIDE TRANSPARENT OPERATION TO THE AGES II EXPANDS THE CURRENT MULTIPLE INTEGRATED ENGAGEMENT SYSTEM (MILES) BY INCORPORATING MILES TRAINING DEVICES FOR THE AH-64, AH-64A+, OH-58D, OH-58D WARRIOR, EMPLOYMENT. AGES II IS A TRAINING SYSTEM THAT CAN BE USED FOR INDIVIDUAL, CREW, COLLECTIVE AND FORCE-ON-FORCE TRAINING. THE SIMULATIONS SIGNIFICANTLY ENHANCE THE VOICE MESSAGES TO THE CREW. WEAPON SYSTEMS SIMULATED INCLUDE: EYE SAFE RANGE FINDING OPERATIONS OUT TO 10 KILOMETERS, HELLFIRE SIMULATION OUT TO 8 KILOMETERS, PROPER WEAPON EMPLOYMENT, ENGAGEMENT TECHNIQUES AND WEAPON SYSTEM SWITCHOLOGY SKILLS ARE PRONE TO DECAY OVER TIME. THE AGES II DEVICES ALLOW THE FLIGHT AND 30 MILLIMETER CANNON SIMULATION OUT TO 3 KILOMETERS, AND HYDRA 70 ROCKET SIMULATION (DIRECT FIRE ONLY) OUT TO 6 KILOMETERS USING ALL TACTICAL MODES OF WEAPON SOLDIER'S/UNIT'S ABILITY TO ACHIEVE THE MANEUVER FIREPOWER REQUIRED TO DESTROY THE ENEMY. THESE DEVICES ARE CRITICAL TO SUSTAINING COMBAT READINESS SINCE THE CH-47D, UH-60A, UH-60L AVIATION HELICOPTERS AND THE FIELD ARTILLERY GROUND/VEHICLE LASER LOCATOR DESIGNATOR (G/VLLD), REFERRED TO AS THE HELLFIRE GROUND SUPPORT SYSTEM (HGSS). THE TRAINING DEVICES PROVIDE INTEGRATED AND REMOVABLE COMPONENTS FOR EYE SAFE LASER OPERATIONS TO ACCURATELY SIMULATE THE VULNERABILITY CREW(S) IN EMPLOYING, OPERATING AND ENGAGING WITH THEIR WEAPON SYSTEMS USING THE ONBOARD TACTICAL WEAPON SYSTEMS WITH EYE SAFE LASERS TO SIMULATE LIVE GROUND CREWS TO CONDUCT SIMULATED COMBAT OPERATIONS ALLOWING EVALUATION OF CRITICAL TASKS AT HOME STATION AND THE COMBAT TRAINING CENTERS.

**EXHIBIT P.40** 

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Page

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P.1 SHOPPING LIST

156 PAGE NO

DD Form 2454, JUL 88

WEAPON SYSTEM COST ANALYSIS			A. APPROPRIATION/BUDGET	TION/BUIDGET	82	B. WEAPON		C. MANIJEACTIJRER NAME	IRFR NAME	n DATE
EXHIBIT (P.5)		- V-	ACTIVITY TITLE/NO.	INO.	₩	MODEL/SERIES/POPULAR	(POPULAR	PLANT CITY/ST	PLANT CITY/STATE LOCATION	MONTHIYEAR
AIR GROUND ENGAGEMENT SYSTEM (AGES II)		(NA0101)	0PA - 3		N	NAME				FEBRUARY 1995
WEAPONS SYSTEM	IDENT.	FY 94	QTY	CY 95		OTY	BY1 96	QTY	8Y2 97	QTY
COST ELEMENTS	CODE	UNIT COST	TOTAL COST	UNIT COST	T01	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
2. AGES II	A									
A. AH-64A+ HARDWARE				163572	86	16030				
B. FIRST ARTICLE TEST (FY90 CONTRACT)			390				•			
C. ECP FOR WIRE STRIKE PROTECTION SYSTEM And Internal Bore Sight			5396			006				
D. AH-64A+ PRODUCTION TESTING						547				
E. AH-64A+ DOCUMENTATION						476				
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TOTAL			5786	1000		17953				

ITEM 156 PAGE 23 OF 65

B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3			C. P1 ITEM NOMENCLATURE AIR GROUND ENGAGEMENT SYSTEM (AGES II)	JRE Ment systei	M (AGES II)					
OTHER SUPPORT EQUIPMENT										(NA0101)
COST ELEMENT!	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SOECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	ВУ	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			MON	REQ'D	AVAILABLE
Z. AGES II										
A. AH-64A+/FY95	LORAL	SS/FP	<b>NAVAL AIR WARFARE</b>	APR 95	AUG 96	86	163572	YES	N0	
	POMONA, CA		CENTER, ORLANDO, FL							
G. 0H-58D/FY90	LORAL	SS/FP	<b>NAVAL AIR WARFARE</b>	SEP 90	MAR 95	7	387329	YES	2	
	POMONA, CA		CENTER, ORLANDO, FL							
H. UH-60/FY90	LORAL	SS/FP	<b>NAVAL AIR WARFARE</b>	SEP 90	MAR 95	228	55143	YES	2	
	POMONA, CA		CENTER, ORLANDO, FL							
1. CH-47/FY90	LORAL	SS/FP	<b>NAVAL AIR WARFARE</b>	SEP 90	MAR 95	28	90/99	YES	2	
	POMONA, CA		CENTER, ORLANDO, FL							
J. HGSS/FY90	LORAL	SS/FP	NAVAL AIR WARFARE	SEP 90	MAR 95	260	44135	YES	ON	
	POMONA, CA		CENTER, ORLANDO, FL							
K. CONTROLLER DEV/FY90	LORAL	SS/FP	NAVAL AIR WARFARE	SEP 90	MAR 95	150	11682	YES	2	
	POMONA, CA		CENTER, ORLANDO, FL						;	
L. AH-64A/FY90	LORAL	SSIFP	NAVAL AIR WARFARE	SEP 90	APR 95	30	345222	YES	2	
	POMONA, CA		CENTER, ORLANDO, FL							
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D. REMARKS										

FEBRUARY 1995

A. DATE

(P-5A)

BUDGET PROCUREMENT HISTORY AND PLANNING EXP

Page of Pages EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING P.1 SHOPPING LIST ITEM NO. 156 PAGE 24 OF 65 PREVIOUS EDITIONS ARE OBSOLETE DD Form 2446-1, JUL 87

CONTRACT AWARD DELAYED DUE TO AH 64A MODERNIZATION PROGRAM CONFIGURATION CHANGES. AIRCRAFT BASELINE HAS NOW BEEN ESTABLISHED. HGSS/FY90 - 20 ACCELERATED HGSS DELIVERED TO FIELD ARTILLERY SCHOOL PRIOR TO FAT COMPLETION TO SATISFY AN URGENT TRAINING NEED. 2A 2J

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OTHEF OTHER	SUPP	CUREM Port e	OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	TMY 3														AR	GROU	NO ER	<b>GAGE</b>	MEN	AIR GROUND ENGAGEMENT SYSTEM (AGES 1)	TER	AGES	=											_	WAD 1011	5		
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APPROPRIATION / BUDGET ACTIVITY	ЛТҮ			P-1 ITEM NOMENCLATURE	.ATURE				
OTHER PROCUREMENT: ARMY 3	9								
OTHER SUPPORT EQUIPMENT				GUARD UNIT ARM(	GUARD UNIT ARMOR DEVICE FOR FULL-CREW IN SIMIII ATION TRAINING - ARMOR JGHARDEIST H	GUARD UNIT ARMOR DEVICE FOR FULL CREW INTERACTIVE SIMILI ATION TRAINING ABMOR JOHARDEIST II	<u>u</u>	2	NAO101)
				CHICATOR THAT		, 101.01			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99		FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)	1.1	6.7	10.1	6.3		·			
nescription.									

STATION (UNITY WINDOW)/GUNNER'S PRIMARY SITE EXTENSION. A SERIES OF TARGETS, HAVING FREEDOM OF MOVEMENT, WILL BE INTRODUCED BY A SCENARIO CONTROLLER. THIS DEVICE GUARDFIST I CONSISTS OF INTERACTIVE SCENARIOS VIEWED THROUGH VISION BLOCKS FOR THE DRIVER, THE PERISCOPE/TELESCOPE FOR THE GUNNER, AND COMMANDER'S WEAPON WILL BE USED IN ARMORIES TO ATTAIN/SUSTAIN TANK GUNNERY PROFICIENCY AND WILL EXERCISE THE FULL CREW BY DRILLS AND INSTITUTIONAL TRAINING EXERCISES

## JUSTIFICATION:

THERE EXISTS IN THE ARMY NATIONAL GUARD (ARNG) AN IMMEDIATE NEED TO IMPROVE THE TRAINING OPPORTUNITY/PROFICIENCY OF ITS M1 ARMOR CREWMEN. THESE ARMOR CREWMEN BATTLEFIELD SCENARIOS FOR TANK GUNNERY, DRIVING, AND TACTICAL EXERCISES. THE DEVICE WILL BE APPENDED TO A TANK IN ORDER TO MAXIMIZE REALISTIC TACTICAL SENSATIONS CONTINUES THE PRODUCTION OF THE GUARDFIST I PROGRAM, AND THROUGH FY97 115 DEVICES WILL HAVE BEEN PROCURED OF THE APPROVED TOTAL REQUIREMENT OF 261 SYSTEMS. AND BE DESIGNED TO ALLOW EACH CREW MEMBER TO ATTAIN AND SUSTAIN THE SKILLS REQUIRED BY HIS DUTY POSITION. THE GUARDFIST I DEVICE WILL RESULT IN INCREASED CREW GUNNERY/TACTICAL PROFICIENCY AT FAR LESS COST FOR AMMUNITION, FUEL, TRAINING AREAS, AND MAINTENANCE AVOIDANCE THAN A STRATEGY WITHOUT THIS DEVICE. FY96-FY97 NEED A REALISTIC, STRESS-FILLED SIMULATED COMBAT TRAINING DEVICE AVAILABLE AT THEIR LOCAL ARMORY THAT CAN PROVIDE THEM WITH A SERIES OF RELATIVE, INTERACTIVE

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S			A. APPROPRI	APPROPRIATION/BUDGET	<del></del>	B. WEAPON		•	C. MANUFACTURER NAME	JRER NAME		D. DATE
EXHIBIT (P.5) GUARD UNIT ARMOR DIVICE FOR FULL-CREW INTERACTIVE	EW INT	ERACTIVE	ACTIVITY TITLE/NO.	LE/NO.		MODEL/SERIES/POPULAR	/POPULAR		PLANT CITY/ST	PLANT CITY/STATE LOCATION		MONTHIYEAR
SIMULATION TRAINING - ARMOR (GUARDFIST I)		(NA0101)	0PA - 3			NAME					_	FEBRUARY 1995
WEAPONS SYSTEM	IDENT.	FY 94	QTY	CY 95		OTY	BY1 96		QTY	BY2 97		QTY
COST ELEMENTS	CODE	UNIT COST	TOTAL COST	UNIT COST		TOTAL COST	UNIT COST		TOTAL COST	UNIT COST		TOTAL COST
3. GUARDFIST I	¥											
A. HARDWARE				277142	21	5820	198590	47	9333	191964	28	5375
B. TRANSIT CASES	·- ·· ·			380	357	135	380	799	304	380	476	181
C. PRODUCTION QUALIFICATION TEST			929									
D. CONTRACTOR ENGINEERING SUPPORT			261			221			116			151
E. CONTRACTOR TEST SUPPORT			230			87						
F. ADA SOFTWARE MAINTENANCE SUPPORT												190
G. INTERIM CONTRACTOR LOGISTICS SUPPORT						134						
H. ECPS						227			260			297
1. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT									78			78
J. OTHER GOVERNMENT AGENCIES ENGINEERING SUPPORT						42			42			42
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A. DATE FEBRUARY 1995

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B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCIIFMENT: ARMY 3			C. P-1 ITEM NOMENCLATURE GUARD UNIT ARMOR DEVICE FOR FULL-CREW INTERACTIVE	RE Evice for fi	JLL-CREW IN	FRACTIVE				<u> </u>
OTHER SUPPORT EQUIPMENT		-	SIMULATION TRAINING - ARMOR (GUARDFIST I)	- ARMOR (G	<b>UARDFIST 1)</b>					(NA0101)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SDECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	ВУ	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			MOW	REQ'D	AVAILABLE
3A. GUARDFIST I/FY93	IND DATA LINK	C/FP	NAVAL AIR WARFARE	FEB 93	DEC 94	31	346290	YES	0N	
	SAN DIEGO, CA	WIOPTION	CENTER, ORLANDO, FL		i i		7	Ş	3	
3A. GUARDFIST IJFY95	SAN DIEGO, CA	UPITON	CENTER, ORLANDO, FL	E HAM	68 130	17	741/17	YES	2	
3A. GUARDFIST I/FY96	IND DATA LINK	OPTION	NAVAL AIR WARFARE	0CT 95	MAY 96	47	198590	YES	N0	
	SAN DIEGO, CA		CENTER, ORLANDO, FL			i	,	1		-
3A. GUARDFIST I/FY97	IND DATA LINK	NOLLON	NAVAL AIR WARFARE	96 TOO	MAY 97	58	191964	<b>KES</b>	<u>2</u>	
CONTINUE CANTOTON	SAN DIEGO, CA	NOTION	CENTER, URLANDO, FL.	VO SIIV	DEC 94	527	380	YFS	S	
SB. IRANSII CASESITISS	SAN DIEGO, CA		CENTER, ORLANDO, FL				}	2	2	
3B. TRANSIT CASES/FY95	IND DATA LINK	NOLLON	NAVAL AIR WARFARE	MAR 95	0CT 95	357	380	YES	2	
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3B. TRANSIT CASES/FY96	IND DATA LINK	OPTION	NAVAL AIR WARFARE	0CT 95	MAY 96	799	380	YES	9	
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3B. TRANSIT CASES/FY97	IND DATA LINK	OPTION	NAVAL AIR WARFARE	96 TOO	MAY 97	476	380	YES	2	
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### D. REMARKS

LOW RATE INITIAL PRODUCTION WITH OPTIONS. UNIT COST IS AVERAGE COST OF ALL UNITS IN A LOT.

ADA SOFTWARE (SW) MAINTENANCE SUPPORT IS A ONE-TIME OPTION IN THE CONTRACT TO PROVIDE A SPECIAL SW MAINTENANCE CAPABILITY "TOOL" FOR IN-HOUSE GOVERNMENT USE. THE CONTRACTOR WILL PERFORM THE NECESSARY SW MAINTENANCE FUNCTION DURING FY97.

Page of Pages	<b>EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING</b>	
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DD-COMP(AR)1092		æ	BUDGET ITEM JUSTIFICATION SHEET	STIFICATION SHE	EI			LEGNORNI	CCC
APPROPRIATION / BUDGET ACTIVITY	VITY			P-1 ITEM NOMENCLATURE	\TURE				
OTHER PROCUREMENT: ARMY 3	6								
OTHER SUPPORT EQUIPMENT				TANK WEA	PONS GUNNERY SIN	TANK WEAPONS GUNNERY SIMULATION SYSTEM!			
				PRECISION	PRECISION GUNNERY SYSTEM (TWGSS/PGS)	(TWGSS/PGS)			(NA0101)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	E	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)	1.4	11.9	24.3	21.9	21.9	19.9	10.9	61	
DESCRIPTION:									

IN REAL TIME AND SIMULATES THE MAIN GUN SIGHTS AND BURST OVER CALCULATED IMPACT POINT. SYSTEM SIMULATES THE MAIN GUN (120MM, 105MM, 25MM) 7.62MM COAX MACHINE DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAYINIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL SUPERIMPOSE REALTIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATED IMPACT POINT. SYSTEM OPERATES AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILT (FORWARDS/BACKWARDS), CANT (SIDE/SIDE), AND DEFILADE CONDITION TO DETERMINE GUN AND TOW WEAPONS SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSSIPGS CREW WILL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS TARGET VULNERABILITY.

### USTIFICATION:

CONTRACT FOR HARDWARE AFTER SATISFACTORY COMPLETION OF PRODUCTION QUALIFICATION TEST, WILL PROCURE 115 TWGSS (M1/M1A1) UNITS AND 74 PGS (M2/M3) UNITS. THE FY96 THE ABILITY TO ANALYZE ERRORS AND MAKE AN ACCURATE EVALUATION OF THE CREW AND UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSS/PGS IS GUNNERY SKILLS. THUS, WEAPONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSSIPGS, WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLÓW THE TWGSS/PGS IMPROVES CREW/GUNNER'S ABILITY TO DESTROY ENEMY TANKS BY REPLICATING BALLISTICS, PROBABILITY OF HIT/PROBABILITY OF KILL, AND ANGLE OF KILL WHEN ASSESSING CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP BY THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY TRAINING CAPABILITY ANYTIME, ANYWHERE. THE FIRST OPTION TO THE TARGET HITS. WITHOUT THIS SYSTEM, UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE AVAILABILITY IS LIMITED. THE TWGSS/PGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY, ACTIVE AND RESERVE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S ACTIVE COMPONENT, NATIONAL GUARD, AND ARMY RESERVE TO CONTINUE TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL, LOCAL TRAINING AREA, MAJOR TRAINING AREA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSSJPGS IS ONE OF THE FY97 OPTIONS WILL CONTINUE PROCUREMENT OF REQUIRED TWGSS/PGS UNITS.

		P.1 SHOPPING LIST			Page	of	Pages
DD Form 2454, JUL 88				UNCLASSIFIED			
	ITEM NO 156	PAGE NO 32	OF 65			<b>EXHIBIT P-40</b>	

WEAPUN STSTEM GUST ANALTSIS EXHIBIT (P.5) TANK WEAPONS GUNNERY SIMULATION SYSTEM (TWGSS) PRECISION GUNNERY SYSTEM (PGS)	EM (TW(	(GSS)	A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA · 3	ION/BUDGET No.	B. WE/ MODEL NAME	B. WEAPON MODEL/SERIES/POPULAR NAME	<b>JPULAR</b>	C. MA	C. MANUFACTURER NAME PLANT CITY/STATE LOGAT	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	D. DATE MONTH/Y FEBRUARY	D. DATE MONTH/YEAR FEBRUARY 1995	
	IDENT.	FY 94 UNIT COST	QTY TOTAL COST	CY 95 UNIT COST	101	OTY TOTAL COST	BY1 96 UNIT COST	101	OTY Total cost	BY2 97 Unit cost	T0T	OTY Total cost	
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A. TWGSS (M1/M1A1)				62611	115	7200	52090	266	13856	55507	228	12655	
B. PGS (M2/M3)				62577	74	4631	52091	198	10314	60293	163	9048	
C. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT									52			52	
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			ITEM 156	33 OF 65									

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URE GIINNERY SI	INERY SYSTE	AWARD	DATE		SEP 92	SEP 92		MAR 95	MAR 95	3	0CT 95		0CT 95	OCT 96		0CT 96			 	_
C. P.1 ITEM NOMENCLATURE TANK WFAPONS GINNERY SIMILIATION SYSTEM!	PRECISION GUNNERY SYSTEM (TWGSS/PGS)	CONTRACTED	ВУ		NAVAL AIR WARFARE	CENTER, ORLANDO, FL NAVAL AIR WARFARE	CENTER, ORLANDO, FL	NAVAL AIR WARFARE	CENTER, ORLANDO, FL	CENTED OBLANDO EL	NAVAL AIR WARFARE	CENTER, ORLANDO, FL	NAVAL AIR WARFARE	NAVA! AIR WARFARF	CENTER, ORLANDO, FL	NAVAL AIR WARFARE				
		CONTRACT	METHOD & TYPE		C/FPI	C/FPI		OPTION	MOLLON	5	OPTION		OPTION	OPTION		OPTION	-			
		CONTRACTOR	AND LOCATION		SAAB TRNG SYS	SWEDEN SAAB TRNG SYS	SWEDEN	SAAB TRNG SYS	SWEDEN	CUEDEM	SAAB TRNG SYS	SWEDEN	SAAB TRNG SYS	SWEDEN SAAR TRNG SVS	SWEDEN	SAAB TRNG SYS	SWEDEN			
B. APPROPRIATION/BUDGET ACTIVITY	OTHER SUPPORT EQUIPMENT	COST ELEMENT/	FISCAL YEAR	5. TWGSS/PGS	A. TWGSS/FY92	B. PGS/FY92		A. TWGSS/FY95	D D C E C O D	6. regirisa	TWGSSEV96		B. PGS/FY96	A TWGSSIEVO7		B. PGS/FY97				

**FEBRUARY 1995** 

A. DATE

(P-5A)

**BUDGET PROCUREMENT HISTORY AND PLANNING EXP** 

CHANGE IN PRODUCTION QUANTITIES FOR FY95 REFLECT INCREASE IN UNIT PRICE WITH ADDITION OF ECPS. INCREASES ARE BUDGET ESTIMATES AS PRICE HAS NOT BEEN NEGOTIATED. D. REMARKS

FY96 UNIT COSTS ARE LOWER THAN FY97 UNIT COSTS DUE TO THE FOLLOWING FACTORS: 1.) BUYING FEWER QUANTITIES IN FY 97; AND 2.) CONTRACTOR'S PLANNED PRODUCTION FOR ALL CUSTOMERS IS HIGHER IN FY96 THAN FY97, PROVIDING LOWER OVERHEAD/G&A COSTS. THESE ARE OPTION PRICES IN A FIXED PRICE CONTRACT WHICH WAS BASED ON A COMPETITIVE ACQUISITION.

P.1 SHOPPING LIST ITEM NO. 156 PAGE 34 OF 65 PREVIOUS EDITIONS ARE OBSOLETE DD Form 2446.1, JUL 87

Page of Pages EXHIBIT P-5A PROCUREMENT HISTORY AND PLANNING

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#### DESCRIPTION:

CORPS BATTLE SIMULATION (CBS) IS A HANDS-ON SIMULATION WHICH SUPPORTS TRAINING OF A CORPS COMMANDER AND HIS BATTLE STAFF, MAJOR SUBORDINATE ELEMENTS HEADQUARTERS OF THE CORPS IN THE CONDUCT OF DEEP OPERATIONS/TACTICAL FORCES, COMBINED ARMS FORCES, MANEUVER FORCES, AND THE COMBAT SERVICE SUPPORT SYSTEMS IN AN OPERATIONAL/TACTICAL ENVIRONMENT. IT CONSISTS OF A COMPUTER MODEL WHICH INTERFACES WITH EXERCISE CONTROLLERS AND ROLE PLAYERS VIA WORKSTATIONS. BRIGADE/BATTALION BATTLE SIMULATION (BBS) IS AN AUTOMATED SIMULATION TO TRAIN BRIGADE/BATTALION COMMANDERS AND STAFFS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN ON THE MODERN BATTLEFIELD. BATTALION/BRIGADE CPX AND COMMAND AND STAFF MODES WILL BE FIELDED AS WELL AS A BRIGADE SEMINAR MODE. JANUS IS AN AUTOMATED SIMULATION TO TRAIN THE COMPANY/PLATOON COMMANDERS IN EXERCISING PROCEDURES AND DECISION MAKING SKILLS ESSENTIAL TO WIN IN CLOSE BATTLE. THE FY96/FY97 PROGRAM WILL BEGIN THE PRODUCTION OF THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSISS) WHICH CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA

# JUSTIFICATION:

AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT AND COMBAT FUNCTIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY96. ALSO PLAN TO PROCURE 2 FULL SUITES, 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.

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	DD Form 2454, JUL 88

								<b>\</b>
REPORTS CONTROL SYMBOL DD-COMP(AR)1092	8	BUDGET ITEM JUSTIFICATION SHEET	M JUSTIF	ICATIONS	HEET	DA	DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			CO CO CO CO CO CO CO CO CO CO CO CO CO C	P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)	E RT TRAINING SIMUL	ATION SYSTEM		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY

(NA0103)

DESCRIPTION: THE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATION. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS NOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT TRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED.

COST(IN MILLIONS)

QUANTITY

UNITS IN THE COMMAND AND CONTROL PROCEDURES ALONG CSS FUNCTIONS AND THE INTERACTION WITH COMBAT SUPPORT FUNCTIONS. MANY COMBAT BATTLE SIMULATIONS HAVE BEEN DEVELOPED TO SPECIFICALLY FILL THE LOGISTICS TRAINING NEEDS. THE CSSTSS WILL PROVIDE THE TRAINING NEEDS. THE CSSTSS WILL PROVIDE THE TRAINING NEESSARY TO DO THE BEHIND THE LINES LOGISTICS FUNCTIONS ADDRESSING MEDICAL, SUPPLY, PERSONNEL, TRANSPORTATION, MAINTENANCE, AMMUNITION, PETROLEUM, OIL, LUBRICANTS, AND OTHERS. LINKING THE COMBAT FUNCTIONS (CORPS BATTLE SIMULATION) TO COMBAT SERVICE SUPPORT FUNCTIONS (CSSTSS) WILL PROVIDE A REAL TIME INTERACTIVE ENVIRONMENT TO ACTIVE TRAINING OBJECTIVES IN THE NEW FORCE PROJECTION ARMY. BENEFITS WILL BE REALIZED IN LOUISIANA MANEUVERS, ANNUAL LOGISTICS EXERCISES, AND SCHEDULED EXERCISES AT CORPS, RESERVE UNITS AND OTHER LOCATIONS. CURRENT PLANS ARE TO PROCURE 3 FULL HARDWARE SUITES FOR SATTLE PROJECTION SETS, AND 3 PARTIAL JUSTIFICATION: AN IN-DEPTH COMBAT SERVICE SUPPORT (CSS) TRAINING SIMULATION SYSTEM IS NEEDED TO TRAIN U.S. ARMY ACTIVE COMPONENT (AC) AND RESERVE COMPONENT (RC) SUITES IN FY97, AT THE SAME CORPS SITES.

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WEAPON SYSTEM COST ANALYSIS	SIS		A. Appropriation/Budget	dget	B. WEAPON		C. MANUFACTURER NAME	R NAME	D. DATE
EXHIBIT (P-5)		csstss	OTHER PROCURES	OTHER PROCUREMENT ARMY: ARMY	MODEL/SERIES/POPULAR				FEBRUARY 1995
		(NA0103)	OTHER SUPPORT EQUIPMENT	EQUIPMENT	NAME				
Weapon System	Ident.	FY 94	Qty Total Cost	CY 95	Qty Total Cont	BY1 96	Qty Total Coot	BY2 97	Offy
1. COMBAT SERVICE SUPPORT TRAINING	В		10tal 603t	1800 11110	19181 0031	1800 1110	lotal cost	1800 1110	1 01al C031
SIMULATION SYSTEM (CSSTSS) HARDWARE SUITE	-								
A. FULL HARDWARE SUITE - MAINFRAME PLUS 39 WORKSTATIONS						11000	3 / 3300	11000	2 / 2200
B. AUGMENTATION EQUIPMENT (ALL SITES ALREADY HAVE HARDWARE)						255750	4 / 1023	713000	2 / **1426
C. PARTIAL SUITES - (REMOTE SITES WITHOUT HARDWARE - NO MAINFRAME WORKSTATIONS AND AUX EQUIP)								800000	3 / 2400
** OCONUS COSTS INCREASE DUE TO									
SHIPPING AND SITE PREPARATION									
									en
							4323		6026

									FEBRUARY 1995	Y 1995
B. APPROPRIAT	B. APPROPRIATION/BUDGET ACTIVITY	/ITY			C. P-1 ITEM NOMENCLATURE	OMENCLA	TURE			(NA0103)
OTHER PROCUE	OTHER PROCUREMENT ARMY: ARMY 3	MY 3	OTHER SUPPORT EQUIPMENT		COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)	ICE SUPPOF	RAININ	G SIMULATIO	N SYSTEM	(CSSTSS)
Cost Element	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	ВУ	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& IYPE			חברואבעו		3007	1	3	AVAILABLE
A CSSTSS/FY96	UNKNOWN	С/FР	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Apr-96	Aug-96	က	11000	0 2		Cot-to-O
A CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96-100	Mar-97	O	11000	Q N		Oct-95
B CSSTSS/FY96	UNKNOWN	C/FP	NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-95	Jan-96	4	255750	O <sub>N</sub>		Oct-95
B CSSTSS/FY97	UNKNOWN	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96-voN	DEC 96.	2	713000	ON.		Oct-95
D. REMARKS										

A. DATE

BUDGET PROCUREMENT HISTORY AND PLANNING (HIBIT (P-5A)

DD Form 2446-1, JUL 87

Previous editions are obsolete

P-1 SHOPPING LIST

Exhibit P-5A Procurement History and Planning

	BUDGET PROCUREMENT HISTORY AND P	EMENT HIS	TORY AND PLANNING EXHIBIT (P-5A)	EXHIBIT	(P-5A)			A. DATE	'FEBRUARY 1995	Y 1995
B. APPROPRIATIOTHER PROCUR	B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT ARMY: ARMY 3		OTHER SUPPORT EQUIPMENT		C. P-1 ITEM NOMENCLATURE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)	JOMENCLA	TURE RT TRAININ	G SIMULATIO	N SYSTEM	(NA0103)
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	ITRACT THOD TYPE	CONTRACTED BY	Δ	DATE OF FIRST DELIVERY	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
C CSSTSS/FY97	UNKNOWN		NAVAL AIR WARFARE CENTER, ORLANDO, FL	Dec-96	Apr-97	က	ON 000008	O <sub>N</sub>		
D. REMARKS										

P-1 SHOPPING LIST

Previous editions are obsolete

DD Form 2446-1, JUL 87

Exhibit P-5A Procurement History and Planning

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)			)				DEBODY CONTROL CYMBOL	CVMBOI
C 0 0 E " B " 1	TEM DE	SCRIPTION	DATE FEBRUARY 1995	95			DD-COMP(AR)1092	1092
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE COMBAI SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS)	PPORT TRAINING	SIMULATION SYS	STEM		(NA0103)
CURRENT DEVELOPMENT AND TEST STATUS	SN						,	
			S	SCHEDULE DATE				
	٠.	CURRENT	LAST REPORTED			REASON FOR DELAY	LAY	
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	JUN 95 AUG 95 NOV 95 OCT 95	MAR 95 MAR 95 AUG 95 OCT 95	RESOLUTION RESOLUTION OTP LATE:	OF TECHNICAL DIFFICULTIES OF TECHNICAL DIFFICULTIES RESOURCE AVAILABILITY	DIFFICULTIES DIFFICULTIES LABILITY		
ESTIMATED DATE OF APPROVAL FOR SER	RVICE USE SPEC	APPROVAL FOR SERVICE USE SPECIAL IPR FOR INITAL HARDWAR	HARDWARE PROCUREMENT / AUG 95 (	(AFTER BLOCK I T	TEST)			
EQUIPMENT ITEM(S) TO BE REPLACED	FORT LEE (CA	FORT LEE (CASCOM) ASSULT MODEL (RENAME	(RENAMED CSSTSS 1.0)					
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	) EQUIPMENT TO	MORE	CURRENT HARDWARE AND SOFTWARE, DOCUMENTATION IMBEDDED TRAINING CAPABILITY, GRAPHICS ADDED	DOCUMENTATION	IMBEDDED TRAIN	IING CAPABILITY	Y, GRAPHICS AD	DED.
DEVELOPMENT CONTRACT INFORMATION		RDT&E	RE FUNDING PROFILE (\$ IN	MILLIONS)				
CONTRACTOR NAME	PLA	PLANT LOCATION	COMPONENT	THRU PYR	ζ	BY1	872	BEYOND BY'S
SAIC	ORLANDO, F	12	CSSTSS 2.0	15.564	5.692	3.919		
TOTAL RDT&E FUNDING				15.564	5.692	3.919		
REMARKS FY96 FUNDS ARE FOR SOFTW	WARE MAINTENAN	FY96 FUNDS ARE FOR SOFTWARE MAINTENANCE POST DELIVERY MODIFICATIONS TO ACCOMMODATE CHANGES	IONS TO ACCOMMODATE CHAN	GES.				
		P-1 SHOPPING LIST	LIST			34	Page of	Pages
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APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	ROCURE UPPORT	N / 64 EMENT: T EQUI	NOGET : ARH IPHENT	ACT IV	<u></u>															P-1 COH9/	ITEM I	P-1 ITEM KOMENCIATURE COMBAT SERVICE SUPPORT TRAINING SIMULATOR SYSTEM (CSSTSS)	CLATU	URE	TRAIN	94	SIMUL	ATOR	SYSTE	E C	SSTS	8			4						1	(101011)
FAC11 117		-		PROC	PROGRAM QUANTITY	THATEL	_		1995		FISC	FISCAL YEAR 96	EAR 9						1		Ĕ	FISCAL YEAR 97	YEAR	16							-	FISC	FISCAL YEAR 98	AR 9								
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REPORTS CONTROL SYMBOL	œ	8 0 0 6 5 1 1 1 6	UNCLAS TEU	UNCLASSIED SHEET	# E E ↑	DAT	DATE FEBRUARY 1995	
ביים ראשר האין			Ġ	D-4 11EW NOWENCH ATLIBE		-		
APPROPRIATION / BUDGET ACTIVITY   OTHER PROCUREMENT: ARMY 3			RA	RANGE TARGETRY	ų.			
OTHER SUPPORT EQUIPMENT								(NA0105)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
QUANTITY								
COST(IN MILLIONS)	16.8	10.6	13.1	13.1	13.2	13.2	17.9	21.0

#### DESCRIPTION:

THE REMOTE TARGET SYSTEM (RETS) CONSISTS OF RANGES WITH STATIONARY AND MOVING INFANTRY AND ARMOR TARGETS THAT PORTRAY REALISTIC OPPOSING THREAT USING SIMULATED BATTLEFIELD CONDITIONS. RANGE DESIGNS PROVIDE TRAINING FOR BASIC AND ADVANCED RIFLE MARKSMANSHIP AND COMBINED ARMS TRAINING OF MI TANK AND BRADLEY FIGHTING VEHICLES (M2 IFV/M3 CFV), AERIAL GUNNERY, COBRA, AND APACHE ATTACK HELICOPTER, ADA, AND VULCAN.

# JUSTIFICATION:

RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT.

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092	89	BUDGET ITE	M JUSTIF	EM JUSTIFICATION SHEET	. H E E T		DATE FEBRUARY 1995		
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 other Support Equipment			P- RAI	P-1 ITEM NOMENCLATURE RANGE TARGETRY	E.				
								(NAU1US)	
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1	
QUANTITY									
COSTCIN MILLIONS)	8.6	9.6	13.1	13.1	13.1	13.2	12.9	12.9	

#### DESCRIPTION

TARGET THREAT TO THE AMERICAN SOLDIER USING SIMULATED BATTLEFIELD CONDITIONS. RETS FACILITATES TRAINING IN DETECTION, IDENTIFICATION, RAPID ENGGEMENT AND PROPER LEADING OF MOVING TARGETS UNDER DAY/NIGHT CONDITIONS, ALL OF WHICH WILL BE REQUIRED IN A FAST-MOVING WAR. WITHOUT THIS TRAINING, THE AMERICAN SOLDIER WILL BE ILL-PREPARED FOR COMBAT. THE QUANTITIES OF EACH COMPONENT ARE TAILORED TO THE RANGE CONFIGURATION OF WHICH THERE ARE CURRENTLY 14 DIFFERENT TYPES. RANGE DESIGNS PROVIDE TRAINING FOR THE BASIC AND ADVANCED RIFLE MARKSMANSHIP PROGRAMS AND COMBINED OF MI TANK AND BRADLEY FIGHTING VEHICLES (MZ IFV/M3 CFV), AERIAL GUNNERY, COBRA AND APACHE ATTACK HELICOPTER, AND VULCAN. THE RETS RANGE IS OPERATED BY AN OPERATOR-PROGRAMMER VIA A COMPUTER-CONTROLLED CONSOLE LOCATED IN THE RANGE THE REMOTE TARGETING SYSTEM (RETS) CONSISTS OF RANGES THAT INCORPORATE INFANTRY AND ARMOR TARGETS, BOTH STATIONARY AND MOVING, THAT PORTRAY A REALISTIC OPPOSING

## JUST I FICATION:

RETS PROVIDES WARFIGHTERS THE TARGETRY SCENARIOS THEY WILL FACE ON THE BATTLEFIELD. THE PROGRAM FIELDS POP-UP, MOVING OBLIQUE AND STATIONARY TARGETS FOR TODAY'S STATE-OF-THE-ART RANGES. WITH THIS TRAINING, THE U.S. SOLDIER WILL BE MUCH BETTER PREPARED FOR COMBAT. RETS SUPPORTS TRAINING FOR THE ARMY'S MAJOR AND ALL MACHINE GUN SYSTEMS, SUCH AS MI AND MGO TANKS, BRADLEY FIGHTING VEHICLE, HELICOPTER GUNNERY, TOW MISSILE, ALL INFANTRY RIFLE MARKSMANSHIP TRAINING AND ALL MACHINE GUN TRAINING. AUTOMATED TARGETRY CONTROL AND SCORING SIGNIFICANTLY REDUCES TRAINING THE ALLOWING MORE UNITS TO UTILIZE THE RANGE. RETS IS THE ONLY LIVE-FIRE TRAINING SYSTEM WHICH ALLOWS COMBAT UNITS TO BE ADEQUATELY TRAINED IN A SIMULATED COMBAT ENVIRONMENT. RETS SUPPORTS ALL INDIVIDUAL AND UNIT TRAINING AND QUALIFICATION, AS WELL AS COMBINED ARMS TRAINING EXERCISES.

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WEAPON SYSTEM COST ANALYSIS			A. Appropriation/Budget	rdget	B. WEAPON		C. MANUFACTURER NAME	R NAME	D. DATE
EAHIBIT (P-5)			Activity Title/No.		MODEL/SERIES/POPULAR	PULAR	PLANT CITY/STATE LOCATION	LOCATION	Month/Year
Remote Targeting System (NAU105)		ı	OPA 3	ı	NAME		UNISYS / RIDDLE		Feb-95
Weapon System	Ident.	FY 94	QTY	66 YO	QTY 	BY1 96	QTY	BY2 97	QTY
Cost Elements	Code	Unit Cost	lotal Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
A. RANGE CONTROL STATION ARMOR	∢	34361	1/34	34361	2/69	34361	5/69	34361	2/69
	-					17452	1/17	17452	3/52
B. RANGE CONTROL STATION INFANTRY		22578	1/23	22578	8/181	22578	8/181	22578	8/180
				-				15819	1/16
C. TARGET HOLDING SET		2161	252/545	2161	262/566	2161	250/540	2161	200/432
				1479	349/516	1479	1644/2432	1479	1476/2183
D. SMALL ARM SIMULATOR		4071	2/8	4071	2/8	4071	2/8	4071	2/8
				1798	70/126	1798	6/9		
E. LOW POWER JUNCTION BOX		871	797/694	871	588/512	871	350/305	871	200/174
				657	266/175	657	1193/784	657	1565/1028
F. MOVING TARGET CAR ASSY		13213	6//9	13213	99/9	13213	99/5	13213	99/9
				2690	41/233	2690	27/154	2690	40/228
G. HIGH POWER JUNC BOX		2000	6/12	2000	5/10	2000	21/42	2174	45/98
H. NIGHT MUZZLE FLASH SIM		635	25/16	635	94/60	635	25/16	635	15/9
				374	412/154	374	143/53	374	29/11
I. DOUBLE TARGET MONITOR		561	500/281	561	200/112	561	88/49	561	50/28
						450	253/114	450	214/96
J. ARMOR MOVING TGT CARRIER		91209	7/638	91209	10/912	91209	9/821	91209	5/456
								61344	11/675
K. TGT HOLDING MECH /TANK GUN				6332	124/785	6332	30/190	6332	80/507
L. TARGET INTERFACE UNIT		2731	10/27	2731	30/82	2731	21/57	2731	10/27
M. TANK GUN SIMULATOR		2096	173/363	2096	119/249	2096	350/734	2096	24/50
				1734	21/36				
N. 3D TARGET		o	500/5			6	940/8	10	1742/17
O. CENTRAL MODEM		442	36/16	442	20/9	442	4/2	442	4/2
P. REMOTE MODEM		4096	3/12	4096	5/20	4096	5/20	4096	5/20
		9024	3/27	9024	3/27	9024	3/27	9024	3/27
R. RANGE INSTALLATION			1404		2044		1733	•	1865
S. STORAGE			180		180		180		180
T. SYSTEM TECH SUPPORT			394		404		416		429
U. GOVT IN-HOUSE ENG SUPPORT			716		782		1118		1187
V. TECH DATA PKG MAINT			398		374		568		616
W. QUALITY ASSURANCE SUPPORT			85		92		22		53
X. ENGR CHANGE PROPOSALS			100		100		100		100
Y. VAR TARGETRY HAITI			1150						
Z. PORTABLE RETS (PRETS)							1500		1500
AA. OTHER SUPPORT			1384		737		713		299
			8591		9621		13083		13056

BUDGET PR	UREMENT HISTORY AND PLANNING EXHIBI	LANNING EX	HIBIT (P-5A)					A. DATE		
					E B 4 ITEM NOMENCI ATIBE	NOMENIO	ATIIDE		- 1	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement: Army 3		Other Support Equipment	ment		Remote Targeting System (RETS)	NOMENCE Jeting Syst	em (RET)	S)	N N	(NA0105)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		TINO	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATIO	METHOD	BY	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			MOM	REQ'D	AVAILABLE
					00 ::011	•	70070	C L	2	
A. RCSA/FY94	UNISAS	C/FFM-5(1)	Rock Island,	Sep 94	Mar 95	- (	34301	YES	2 :	
RCSA/FY95	UNISYS	C/FFM-5(2)	Rock Island,	Feb 95	Jun 96	7	34361	YES	2	
RCSA/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 96	2	34361	YES	8	
RCSA/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	May 97	-	17452	YES	2	
RCSA/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	34361	YES	2	
RCSA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	3	17452	YES	8	
						•	0000	Ĺ	9	
B. RCSI/FY94	UNISYS	C/FFM-5(1)	Kock Island,	Sep 84	Mar 90	- ,	0/077	2	2 :	
RCSI/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	96 unf	∞	22578	YES	2	
RCSI/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Dec 98	۵	22578	YES	2	
RCSI/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	∞	22578	YES	2	1
RCSI/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	-	15819	YES	2	
		1		(	:		3	C L	9	
C. ITM/FY94	UNISYS	C/FFM-5(1)	Rock Island,	Sep 94	Mar 96	252	2161	YES	2 9	
ITM/FY95	UNISYS	C/FFM-5(2)	Rock Island,	Feb 95	Aug 96	262	2161	YES	2	
ITM/FY95	UNISYS	OPTION	Rock Island,	Feb 95	Sep 96	349	1479	YES	<u>0</u>	
ITM/FY96	UNISYS	C/FFM-5(3)	Rock Island,	Dec 95	Jan 97	250	2161	YES	2	
ITM/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1644	1479	YES	2	-
ITM/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL		Aug 97	200	2161	YES	2	
ITM/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	1476	1479	YES	<u>Q</u>	
D IHES/EV94	SASINI	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	7	4071	YES	Q.	
D: 111 O/1 134	UNISYS	C/FFM-5(2)	Rock Island,	Feb 95		2	4071	YES	ON N	
HES/EV95	UNISYS	OPTION	Rock Island,	Feb 95	Jun 96	20	1798	YES	9	
11 0 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 1 0 1	UNISYS	C/FFM-5(3)	Rock Island,	Dec 95	Mar 97	7	4071	YES	8	
HES/EY96	UNISYS	OPTION	Rock Island,	Feb 96		5	1798	YES	<u>Q</u>	
IHFS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	2	4071	YES	<u>Q</u>	
D. REMARKS										

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BLIDGET BOOCLIBEMENT HISTORY AND BLANNING EXHIBIT (0.50)	G TOBY AND B	ANINING EX	HRIT (D.SA)					A		
			(V2-1) 11011					A. DATE Fet	- February 1995	95
B. APPROPRIATION/BUDGET ACTIVITY	ACTIVITY				C. P-1 ITEM NOMENCLATURE	NOMENCL	ATURE			
Other Procurement: Army 3	Othe	Other Support Equipme	뉟	_	Remote Targeting System (RETS)	eting Syst	em (RET	S)	(NA	(NA0105)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATIO	METHOD & TYPF	ВУ	DATE	FIRST DELIVERY	QUANTITY	COST	AVAILABLE NOW	REV	WHEN AVAIL ARI E
F   P.18/FY94	SASINIT	C/FFM-5(1)	ACALA Rock Island II	Sep-94	Mar-96	797	871	YFS	┰	
LPJB/FY95	UNISYS	C/FFM-5(2)	\ <u>\</u>	Feb 95	Sep 96	588	871	YES	2 2	
LPJB/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Nov 96	266	657	YES	8	
LPJB/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	350	871	YES	<u>Q</u>	
LPJB/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	1193	657	YES	9	
LPJB/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Jun 97	200	871	YES	<u>Q</u>	
LPJB/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Jul 97	1565	657	YES	<u>8</u>	
F (MTC/FY94	UNISYS	C/FFM-5(1)	ACALA. Rock Island. IL	Sep 94	Mar 96	ဖ	13213	YES	9	
IMTC/FY95	UNISYS	C/FFM-5(2)	ALA, Rock Island,	Feb 95	May 96	2	13213	YES	9	
IMTC/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Jun 96	41	5690	YES	9	
IMTC/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	က	13213	YES	2	
IMTC/FY96	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	27	2690	YES	8	
IMTC/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	အ	13213	YES	8	
IMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Aug 97	40	2690	YES	<u>0</u>	
G. HPJB/FY94	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Dec 95	ဖ	2000	YES	0N	
HPJB/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Mar 95	Mar 96	2	2000			
HPJB/FY96	UNKNOWN	OPTION	Å,	Mar 95	Apr 96	21	2000	YES	<u>Q</u>	
HPJB/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Sep 97	45	2174	YES	O Z	
H. INMFS/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	25	635	YES	8	
INMFS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	94	635	YES	9	
INMFS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95	Sep 96	412	374	YES	o N	
INMFS/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Mar 97	22	635	YES	ON N	
INMFS/FY96	UNISYS	OPTION	A۲,	Feb 96	Mar 97	143	374	YES	2	
INMFS/FY97	UNISYS	C/FFM-5(4)	ALA, Rock Island,	Dec 98	Ang 97	15	635	YES	8	•••
INMFS/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep-97	29	374	YES	<u>8</u>	-
D. REMARKS										

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CUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	
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<b>CUREMENT HISTORY AND PLANNING EXHIBIT</b>	
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BUDGET I CUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	STORY AND P	LANNING EXP	IIBIT (P-5A)					A. DATE Feb	Fahrua	395
	OTH MITO				C P-1 ITEM NOMENCL ATURE	NOMENCL	ATURE			
B. APPROPRIATION/BUDGE! ACTIVITY Other Progression: Army 3		Other Support Equipm	nent		Remote Targeting System (RETS)	eting Syste	em (RET	8)	(NA	(NA0105)
COST CLEMENT	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SDECS	SPEC	IF YES,
COSI ELEMENT	AND LOCATIO	METHOD	В	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			MON	REQ'D	AVAILABLE
I DTA/EV94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	200	561	YES	9 N	
CTA/FY95	UNISYS		ACALA, Rock Island, IL	Feb 95	Apr 96	200	561	YES	2	
01A/F/96	UNISYS	_	ACALA, Rock Island, IL	Dec 95	Sep 96	88	561	YES	2	
1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 96	Nov 96	253	450	YES	9	
DTA/EY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Aug 97	20	561	YES	9	
DTA/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Sep 97	214	450	YES	9	
	SASINI	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96		91209	YES	9	
J. AMILO/F194	LINISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	May 96	10	91209	YES	9	
AM C/F 183	LINISYS	C/FFM-5(3)	CALA.	Dec 95	Aug 96	တ	91209	YES	9	
AMIC/F190	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	တ	91209	YES	2	
AMTC/FY97	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 97	Oct 97	11	61344	YES	<u>8</u>	
							0	) (1)	- 2	
K THMTG/FY95	UNKNOWN	C/FFP	ACALA, Rock Island, IL	30 Inc	96 JOC .	124	0332	2 1	2 2	
THMTG/FY96	UNKNOWN	OPTION	ACALA, Rock Island, IL	Feb 96	Feb 97	30	6332	YES	2	
THMTG/FY97	UNKNOWN	C/FFP	ACALA, Rock Island, IL	Dec 96	Aug 97	80	6332	YES	2	
70\S\1	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	10	2731	YES	8	
T. 110/1 194	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Jul 96	30	2731	YES	<u>8</u>	
26. 101. 11. 100.	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Jan 97	21	2731	YES	<u>Q</u>	
TIU/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	10	2731	YES	<u>0</u>	
	0	C/EEM 6/4)	ACALA Book Island II	20 ng	Mar 96	173	2096	YES	2	
M. ATKS/FY94	O IND	(1)6-141-2(1)		10 10 1		770	2006	\ П	S	
ATKS/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	rep 95		2 6	7027	- X	2 2	
ATKS/FY95	UNISYS	OPTION	ACALA, Rock Island, IL	Feb 95		7.	1/34	בי בי	<del>)</del> (	
ATKS/F\96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95		350	2096	YES	2	
ATKS/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	24	2096	YES	Q Z	
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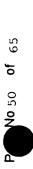
BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	ISTORY AND F	'LANNING EX	HIBIT (P-5A)					A. DATE		
								Feb	February 1995	995
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE	NOMENCL	ATURE			
Other Procurement: Army 3	Othe	Other Support Equipment	ment		Remote Targeting System (RETS)	eting Syst	em (RET	S)	(NA	(NA0105)
COST ELEMENT/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		LIND	SDECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATIO	METHOD	ВУ	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		U			DELIVERY			AON.	KEG D	AVAILABLE
N. 3D TGT/FY94	RIDDLE COR		ACALA, Rock Island, IL	Aug 94	Apr 95	200	o o	YES	8	
3D TGT/FY96 3D TGT/FY97	RIDDLE COR	C/FFP OPTION	ACALA, Rock Island, IL ACALA, Rock Island, II	Dec 95	May 96 May 97	940	و <del>5</del>	YES	25	
					6	7	2	<u> </u>	2	
O. MOD/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	36	442	YES	9	
MOD/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	20	442	YES	9	
MOD/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	4	442	YES	9	
MOD/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	4	442	YES	<u>Q</u>	
				,	(	,				
F. KMOD/FY84	UNISYS	C/FFM-5(1)		Sep 94	Mar 96	က	4096	YES	<u>0</u>	
KMOD/FY95	UNISAS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Aug 96	S	4096	YES	<u>0</u>	
RMOD/FY96	ONISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Nov 96	ဇ	4096	YES	9	
RMOD/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 36	Sep 97	5	4096	YES	<u>0</u>	
Q. AAO/FY94	UNISYS	C/FFM-5(1)	ACALA, Rock Island, IL	Sep 94	Mar 96	က	9024	YES	9	
AAO/FY95	UNISYS	C/FFM-5(2)	ACALA, Rock Island, IL	Feb 95	Apr 96	က	9024	YES	9 N	
AAO/FY96	UNISYS	C/FFM-5(3)	ACALA, Rock Island, IL	Dec 95	Sep 96	က	9024	YES	9	
AAO/FY97	UNISYS	C/FFM-5(4)	ACALA, Rock Island, IL	Dec 96	Sep 97	က	9024	YES	<u>0</u>	
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APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	10H / uremen ort Eq	BUDGET / t: Arm ulpment	ACTIVITY 3													P-1 1 RANGE	TEM NO	P-1 ITEM NOMENCLATURE RANGE TARGETRY	TURE											•			C.	(NA0105)
F			PROGR	PROGRAM QUANTITY	1117				⊢	FISCAL YEAR	8 95						FISC	FISCAL YEAR 96	8 96						-	SCAL	FISCAL YEAR 97	۲.						
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FY93 RH	HS TEC	RMS TECH, NEWPORT NEWS,	XT NEW	۲,									1		-	+	3			ž	2	3												
FY94-97 U	UNISYS CORP	d WO												INITIAL																				
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REPORTS CONTROL SYMBOL 00-COMP(AR)1092	S CONT	80L S	YHBOL										•	0 0	>	0 1 1 0	S	СИЕ	0 U L	w												DAT	DATE FEBRUARY 1995	UARY	1995				
APPROP Other Other	RIATIO Procur Suppor	M / B ement t Equ	APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment	3	_													∞ ∞	P-1 ITEM NOMENCLATURE RANGE TARGETRY	ARGET!	ENCLA1 RY	TURE															CKA	(NA0105)	
				PROGR	PROGRAM QUANTITY	MTITY				-	FISCAL YEAR	L YEA	8					-		FISCA	FISCAL YEAR	8 %							FISC	FISCAL YEAR	EAR 97							*	
FACILITY		o m	-	-	-	-	-	¥ ₹	_	₽ W			CALL	CALENDAR YEAR 95	YEAR	8						CALE	CALENDAR YEAR	YEAR	8						3	CALENDAR YEAR	R YEAR	26 1				· - '	
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	101	Ē	TOTAL MONTHLY PRODUCTION	) Section	₹	-	-	+	0	6165	0	0	ઠ	330 24	240 240	8	-	0	0	0	0 6	0	0 70	409 409	2	21	20	762 0	162 762		12 35(	300	300	20 23	12 350 300 300 300 293 400 300 316 333	31	6 333	701	
										5	OCT NOV DEC	V DEC	JAN	FEB MA	MAR APR	FA	NO.	JUL AUG	AUG SEP OCT NOV DEC JAN FEB MAR APR	)CT NO	v DEC	NA.	EB M/	RAPR	¥	5	₹	G SEP	8	NOV.	EC	JUN JUL AUG SEP OCT MOV DEC JAN FEB HAR APR MAY	HAR AF	A HAY	HOL	JUN JUL AUG	IG SEP		
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(NA0106)

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COST(IN MILLIONS) 31.5	13.7	3.3	16.9	1.5	-		8.6

#### DESCRIPTION:

THE GUARD UNIT ARMORY DEVICE FOR FULL CREW INTERACTIVE SIMULATION TRAINING - ARTILLERY (GUARDFIST II) IS AN INTERACTIVE VIDEO DISC DISPLAY SYSTEM THAT TRAINS THE FORWARD OBSERVER (FO) IN A STAND-ALONE OR TOGETHER WITH THE FIRE DIRECTION CENTER, AND THE HOWITZER CREW IN AN INTERACTIVE MODE. GUARDFIST II TRAINS THE FO IN TARGET IDENTIFICATION AND CALL-FOR-FIRE, PROVIDES FDC PERSONNEL EXERCISE IN COMMUNICATIONS AND ELEVATION. THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) PORTRAYS THE EFFECTS OF FRIENDLY AND HOSTILE INDIRECT FIRE, MORTARS, MINES AND NON-PERSISTENT CHEMICAL CONTAMINATION. THIS SYSTEM WILL BE FIELDED INITIALLY TO THE THREE COMBAT TRAINING CENTERS (CTC) FOR FORCE-ON-FORCE TRAINING. SAWE-RF COMBINES RADIO FREQUENCY AND GLOBAL POSITIONING SYSTEM TECHNOLOGIES TO PERFORM REALTIME, OBJECTIVE CASUALTY ASSESSMENT ON EQUIPPED SOLDIERS AND VEHICLES WITHIN THE APPROPRIATE HIT/NEAR MISS AREAS.

# JUSTIFICATION:

FY 96 FUNDS ARE REQUIRED TO AWARD CONTRACT OF SAWE-RF TO PROVIDE INSTRUMENTATION REQUIRED AT THE NATIONAL TRAINING CENTER (NTC) AND THE JOINT READINESS TRAINING CENTER (NTC). FY 97 FUNDS PROVIDE INITIAL SPARES AND REQUIRED ENGINEERING CHANGE PROPOSALS.

١	Page of Pages	EXHIBIT P-40
		UNCLASSIFIED
	P-1 SHOPPING LIST	ITEM NO 156 PAGE NO 57 OF 65
		DD Form 2454, JUL 88

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REPORTS CONTROL SYMBOL							DATE FEBRUARY 1995	1995
DD-COMP(AR)1092		<b>a</b>	SUDGET ITEM JU	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	ET			
APPROPRIATION / BUDGET ACTIVITY	/ITY			P-1 ITEM NOMENCLATURE	ATURE			
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	3			SIMULATED AREA V	SIMULATED AREA WEAPONS EFFECTS RADIO FREQUENCY (SAWE.RF)	RADIO FREQUENCY	(SAWE-RF)	
								(NA0106)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	29.5	9.4	3.3	16.9				
DESCRIPTION:								

FOR TRAINING AT THE CTC'S. THE DEVICE REPROCUREMENT WILL BE CONDUCTED UNDER RULES OF FULL AND OPEN COMPETITION. THIS FOLLOW-ON CONTRACT INCLUDES HARDWARE BUYS THE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. ENGINEERING CHANGE PROPOSAL DELIVERIES ENDING IN FY96. FY96 ESTABLISHES THE REPROCUREMENT PROCESS TO COMPLETE THE BUYOUT OF MINIMUM ESSENTIAL DEVICE QUANTITIES VEHICLES AND FIXED TARGETS; AUDIOVISUAL CUE DEVICES FOR WEAPONS SYSTEMS, CHEMICAL AGENT ALARM SETS; AND VEHICLE DETECTION DEVICES (VDD) FOR UNIT COMBAT VEHICLES. FORCE-ON-FORCE TRAINING. BOTH SIDES, BLUEFOR AND OPFOR, ARE EQUIPPED WITH THESE TRAINING DEVICES. FY95 MARKS THE END OF THE BASELINE PRODUCTION CONTRACT, WITH OF THE PLAYER DETECTION DEVICES (PDD) (RECONFIGURED TO TAKE ADVANTAGE OF MATURING TECHNOLOGIES AND ERGONOMICS); MITS KITS TO INSTRUMENT UNIT ADMINILOGISTICS THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTC) TO SUPPORT

### JUSTIFICATION:

RECORDED BY THE SAWE/MILES II DEVICES. FAILURE TO FUND THIS PROCUREMENT WILL RENDER NONOPERATIONAL THE INSTRUMENTATION SYSTEMS AT NTC AND JRTC (DELIVERED UNDER INSTRUMENTATION REDUIRED TO SUSTAIN REALISTIC FORCE-ON-FORCE TRAINING EXERCISES AT THE THREE MANEUVER COMBAT TRAINING CENTERS (CTC). SOLDIER FIGHTING SKILLS SINGE FY91 THE SAWE-RF AND MILES II PROCUREMENT PROGRAMS HAVE BEEN INTEGRATED TO SUPPORT COMBINED TACTICAL ENGAGEMENT SIMULATION AND CASUALTY ASSESSMENT ARE HONED IN A REALISTIC COMBAT ENVIRONMENT AND LEARNING IS ENHANCED BY THE EFFECT OF INSIGHTFUL AFTER ACTION REVIEWS (AAR) USING GRAPHIC AND NUMERIC DATA SEPARATE PROCUREMENT ACTIONS). THIS WILL ADVERSELY AFFECT ARMY AND AIR FORCE COMBAT READINESS.

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	ITEM NO $_{156}$ PAGE NO $^{58}$ OF $^{65}$			EXHIBIT P.40	

WEAPON SYSTEM COST ANALYSIS				A. APPROPRI	A. APPROPRIATION/BUDGET	B. WEAPON		C. MANUFAC	C. MANUFACTURER NAME	D. DATE
EXHIBIT (P-5) SIMULATED AREA WEAPONS				ACTIVITY TITLE/NO.	.E/N0.	MODEL/SERIES/POPULAR	S/POPULAR	PLANT CITY/8	PLANT CITY/STATE LOCATION	MONTH/YEAR
LUENCT (SAWE-RF) (NAU 10b)				UPA - 3	- 1	NAME	ì		- 1	FEBRUARY 1995
WEAPONS SYSTEM	DENT.	FY 94		OTY TOTAL COST	CY 95	OTY TOTAL COST	BY1 96	QTY TOTAL CORT	BY2 97	QTY TOTAL COST
	1000			10141 0001	1000 1110	101AL 0001	1000 1110	TOTAL COST	I COO I INO	I U I AL CUSI
1. SIMULATED AREA WEAPONS EFFECTS	¥									
RADIO FREQUENCY (SAWE.RF)										
A. VEHICLE DETECTION DEVICE (VDD)						,				
B. MULTIPLE INTEGRATED TARGET SYS (MITS)		13000	795	10335	•					
C. MBA1 CHEMICAL AGENT ALARM UNIT										
		9742	1200	11690						
E. MINE EFFECTS SIMULATOR (ANTI-TANK)										
F. MINE EFFECTS SIMULATION (ANTI-FERSUNNEL)				6			-			
G. PHUDUCITON LESTING H. FNGINFFRING SUPPORT				06/						
IN-HOUSE GOVERNMENT				325					-	
OTHER GOVERNMENT AGENCIES				9		328				
I. INTERIM CONTRACTOR LOGISTICS SUPPORT				584						
J. ENGINEERING CHANGE PROPOSALS										
H114 SPEC COMPLIANCE CLAUSE				3283		3717				
RECHARGEABLE BATTERY VECP				646		150	-			
INTERFACE CONTROL DOCUMENT		,		300		100				
T72/T80 BMP ECP	•			640		200				
VEST REDESIGN ECP						2238				
HIND-D						400				,
FEMALE VOICE ECP				161						
POST TESTING MOD ECP						006				
JRTC REPEATERS/AMPLIFIERS				889		512				
NTC MCS REHOST						150				·
NTC ELECTRONIC FENCE						100	<del></del>			
M1A2 ABRAMS MODIFICATION						200				*
VOLCAND MINE						100				et., , , ,
STINGER						100				14+-
MILES GRENADE						250				
				205.41		9445				
				ITEM 158	50 OF 85	2443				
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WEAPON SYSTEM COST ANALYSIS			A. APPROPR	A. APPROPRIATION/BUDGET	T B. WEAPON	N	_	. MANUFACT	C. MANUFACTURER NAME		O. DATE
EXHIBIT (P-5) SIMULATED AREA WEAPONS			ACTIVITY TITLE/NO.	rlejno.	MODEL/SE	MODEL/SERIES/POPULAR		LANT CITY/S	PLANT CITY/STATE LOCATION		MONTHIYEAR
			0PA - 3		NAME		$\dashv$		- 1	$\exists$	FEBRUARY 1895
WEADONS SYSTEM	IDENT.	FY 94	QTY	CY 95	QTY	BY1 96		OTY	BY2 97		ΩTΥ
COST FIRMENTS	CODE	UNIT COST	TOTAL COST	UNIT COST	TOTAL COS	UNIT COST		TOTAL COST	UNIT COST		TOTAL COST
2. SIMULATED AREA WEAPONS EFFECTS RADIO FREQUENCY (REPROCUREMENT)	A					·					
A. VEHICLE DETECTION DEVICE (VDD)						75000	9	450	21554	25	1121
B. MULTIPLE INTEGRATED TARGET SYS (MITS)		-				00009	က	180	16482	200	3296
G. MBA1 CHEMICAL AGENT ALARM UNIT						00009	က	180	19018	120	2282
D. PLAYER DETECTION DEVICE (PDD)									100000	20	2000
E. MINE EFFECTS SIMULATOR (ANTI-TANK)						10000	25	250			
F. MINE EFFECTS SIMULATOR (ANTI-PERSONNEL)						10000	25	250	100	3800	380
G. PRODUCTION TESTING	· · · · ·							418			850
H. ENGINEERING SUPPORT IN-HOUSE GOVERNMENT OTHER GOVERNMENT AGENCIES			·					572 604			400
I. INTERIM CONTRACTOR LOGISTICS SUPPORT								150			1500
J. ENGINEERING CHANGE PROPOSALS								202			1585
											•
								3256			16887
			ITEM 156	ITEM 156 PAGE 60 OF 65	35			-			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	T HISTORY AND PLAP	VNING EXHIBI	T (P-5A)				A. DATE	FEBRUARY 1995	10	
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE SIMULATED AREA WEAPONS EFFECTS-RADIO FREQUENCE (SAWE-RF)	RE JNS EFFECT	S.RADIO FRED	UENCE (SAWE	.RF)			(NA0106)
COST ELEMENT/ FISCAL YEAR	CONTRACTOR And Location	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST Delivery	QUANTITY	UNIT	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES, WHEN AVAILABLE
1. SAWE-RF	,									
A. VDD/FY91	LORAL	C/FFP	NAVAL AIR WARFARE	SEP 91	0CT 94	086	12900	YES	NO NO	
A. VDD/FY92	LORAL	OPTION	NAVAL AIR WARFARE	0CT 91	FEB 95	597	16166	YES	2	
B. MITS/FY92	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	0CT 91	DEC 94	724	9845	YES	NO NO	
B. MITS/FY93	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	DEC 92	MAY 95	192	9382	YES	NO.	
B. MITS/FY94	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	JUL 94	30N 95	795	13000	YES	0N	
n Phnjevat	POMONA, CA LOBAL	C/FFP	CENTER, ORLANDO, FL NAVAL AIR WARFARE	SEP 91	DEC 94	2408	7648	YES	ON.	
D PINIEV92	POMONA, CA	NOLLION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	0CT 91	MAY 95	1558	7664	YES	NO N	
D. PDD/FY93	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	DEC 92	30 TOF	914	7251	YES	ON .	
D. PDD/FY94	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	MAR 94	AUG 95	1200	9742	YES	ON	
E. MES (AT)/FY92	POMONA, CA Loral	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	0CT 91	NOV 94	33000	65	YES	N0	
F. MES (AP)/FY92	POMONA, CA LORAL	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE	0CT 91	NOV 94	27000	65	YES	NON	
	POMONA, CA		CENTER, ORLANDO, FL							
D. REMARKS										

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DEET DESCRIBEMENT HISTORY AND PLANNING EXHIBIT (P.5A)	•
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FEBRUARY 1995

A. DATE

OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT  COST ELEMENT! FISCAL YEAR AND LOCATION A. VDD/FY96 A. VDD/FY96 B. MITS/FY96 B. MITS/FY97 C. M8A1/FY96 C. M8A1/FY96 TBD	CONTRACT & TYPE & TYPE FFP OPTION FFP	CONTRACTED  CONTRACTED  BY  DATE FIRST  DELIVERY  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 95  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  CENTER, ORLANDO, FL  NAVAL AIR WARFARE  NOV 96  CENTER, ORLANDO, FL	AWARD DATE NOV 95 NOV 96 NOV 96 NOV 96	BATE OF FIRST DELIVERY SEP 97 NOV 97 SEP 97	QUANTITY 6 6 3 3	UNIT COST	SPECS AVAILABLE NOW	SPEC	(NA0106) IF YES, WHEN
OST ELEMENT/ FISCAL YEAR EPROCUREMENT)	CONTRACT METHOD & TYPE FFP OPTION FFP	CONTRACTED BY NAVAL AIR WARFARE CENTER, ORLANDO, FL CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	AWARD DATE NOV 95 NOV 96 NOV 96 NOV 96	DELIVERY DELIVERY SEP 97 NOV 97 SEP 97	DUANTITY 6 6 52 3	UNIT COST	SPECS AVAILABLE NOW	SPEC REV	IF YES, WHEN
REPROCUREMENT)	FFP OPTION FFP OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95 NOV 96 NOV 95	SEP 97 NOV 97 SEP 97	6 52 3 3			REO'D	AVAILABLE
	FFP OPTION FFP OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95 NOV 96 NOV 95	SEP 97 NOV 97 SEP 97	6 52 3				
s	OPTION FFP OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 96 NOV 95 NOV 96	NOV 97 SEP 97	3	75000	YES	ON.	
<b>m</b>	FFP OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	NOV 95	SEP 97	e 00	21554	YES	ON.	
	OPTION	NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 AON	10 001	יייי	00009	YES	ON.	
		CENTER, UNLANDO, TL		/S AON	007	16482	YES	ON .	
	타	NAVAL AIR WARFARE	NOV 95	SEP 97	က	00009	YES	ON .	-
C. M8A1/FY97 TBD	OPTION	NAVAL AIR WARFARE	96 AON	76 VON	120	19018	YES	ON .	
D. PDD/FY97	FFP	NAVAL AIR WARFARE	NOV 96	NOV 97	50	100000	YES	ON	
E. MES.AT/FY96 TBD	FFP	NAVAL AIR WARFARE	NOV 95	SEP 97	25	10000	YES	Q.	
F. MES-AP/FY96	94	NAVAL AIR WARFARE	NOV 95	SEP 97	25	10000	YES	Q N	
F. MES-APIFY97 TBD	OPTION	CENTER, ORLANDO, FL NAVAL AIR WARFARE CENTER, ORLANDO, FL	96 AON	NOV 97	3800	100	YES	N	
							·		

FY96/FY97 ITEMS ARE BEING PROCURED UNDER A NEW COMPETITIVE CONTRACT.

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OTHER	E IS	PPORT	OTHER PROCUREMENT: ARM OTHER SUPPORT EQUIPMENT	OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	_												NES.	ULATE	D ARE	A WEA	SIMULATED AREA WEAPONS EFFECTS RADIO FREDUENCY (SAWE.RF)	EFFEC	TS-R	1010 F	REOUE	NCY (	SAWE	HE.									Ž	(NA0108)	=
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	-																	쭕	CUREM	PROCUREMENT LEAD TIME	O TIME				ŦÃ	REMARKS: Basic con	TRACT	ENDS S	EP 95. F	FOLLOW	ONCOR	APE TITA	REMARKS: Basic contract ends sep 96. Follow on competitive production contract is scheduled to be	JUC TION	CONTR	ACT IS	SCHEDU	NED 10	38
FACILITY			MAR	MANUFACTURERS NAME	HS MAME			Ĕ	PRODUCTION RATES	<b>8</b> 2		¥ 8	MONTHS TO	- ·			ADULTAN I EAR TIME	1							₹.	WARDED	AWARDED NOV 85.	,											
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1 N	+=	ORAL.	LORAL, POMONA, CA	A. CA				25	5	_	1050			Γ			1001	1 00 1		_	TIME		AFT	AFTER 1 OCT		IS ASSU	MED TH	AT THE	UNKNO	WN CON	TRACT	OR (FYO)	IT IS ASSUMED THAT THE UNKNOWN CONTRACTOR (FYGE 97) WILL HAVE PRODUCTION CAPABILITY	IL HAVE	PRODU	CTION C	APABIL	Ĕ	
e	╁╧	ORAL,	LORAL, POMONA, CA	A, CA				32	700	_	55	-			MITIAL			0							<u>ड</u>	MPARA	COMPARABLE TO THE EXISTING CONTRACTOR.	IK EX	STING C	ONTRA	CTOR.								٠.
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ROPRIA	TION	) Billion	DU-CUMPTARITURY APPROPRIATION / BUDGET ACTIVITY	) L										_	P.1 ITEM	P-1 ITEM NOMENCLATURE	LATURE													
THER P	ROCUS UPPOR	REMEN	OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	<u>ب</u>											SIMULAT	EO AREA	SIMULATED AREA WEAPONS EFFECTS.RADIO FREQUENCY (SAWE.RF)	S EFFEC	rs-radii	FREOU	ENCY (S	AWE.RF	_					-	(NA0108)	إ
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FACILITY		-	MANUFACTURERS NAME	HEERS MAN	¥	•		PRODUCT	PRODUCTION RATES		9	MONTHS TO								E	IL AND RE	ORDER TIA	ES FOR /	2 ITEMS A	IE FOR TH	INITIAL AND REORDER TIMES FOR 1/2 ITEMS ARE FOR THE NEW COMPETITIVE CONTRACT.	PETITIVE	CONTRAC		
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TOTAL MONTHLY PRODUCTION															$\dashv$						$\dashv$	$\dashv$	$\dashv$	_		_	$\dashv$	1	+	丰		士	$\dashv$	-		上
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TBD	<b>£</b>			<b>\$</b> 100	CATION				+			71.00	ענשנים ב	```		2 2	-	BIEB		IAMUFAC	TURING		101	=							-					
TBD         1         700         1050         mitut         1         23         24           TBD         1         700         1050         mitut         1         13         14           TBD         1         9000         13500         13         14         Page OF           TBD         1         9000         13500         Page NO         Page NO         Page NO		4					$\dagger$		+	<u>ş</u>	-	AIM OF		5			_						ACTED	T Ju												
TBD         1         700         1050         MININ         1         23         24           TBD         1         700         1050         Regent         1         14           TBD         1         9000         13500         Pege         0F           DD Form         DD Form         ATEM MO 1 KG         Page         DF	2A, 2B	<b>19</b> 0					1	-	+	8	1	8	$\downarrow$	T		=	4	3	_			+			<del>-</del>											
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SIMILATIO	N AND TRAIN	SIMILIATION AND TRAINING DEVICE JUS	STIFICATION (\$000)	1000			Date	FEBRUARY 1995	95
Appropriation/P-1 Line Item	Line Item		Wespons System (if applicable)	applicable)		Equipment Nomenclature	fature		PE
OPA 3 TRAI	OPA 3 TRAINING DEVICES, NON-SYSTEM	NON-SYSTEM				NA0101	NA0101 MILES 2000		844715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	0	12.4	16.5	38.5	34.0	36.8	45.9	58.2	242.3
RDT&E	1.0	0	0	6:0	3.0	3.0	5.0	5.0	17.9
S\$0	24.9	25.7	25.8	21.3	21.3	21.3	21.3	21.3	182.9
TRAINING S	TRAINING SYSTEM DESCRIPTION:	RIPTION:							

REPLACEMENT ITEMS FOR CURRENT MILES DEVICES WHICH ARE BECOMING UNSUPPORTABLE AND UNRELIABLE DUE TO AGE. MILES IS A LASER BASED ENGAGEMENT TRAINING SYSTEM WHICH ENCOMPASSES MAN-WORN, CREW-SERVED AND COMBAT VEHICLE SYSTEMS. PROJECTED INITIAL OPERATIONAL CAPABILITY (IOC) IS 1ST QUARTER FY96.

P.1 SHOP LIST	PAGE NO.	
ITEM NO.		EXHIBIT-43, PAGE 1 of 6
156A	la	P.43 Simulator & Training Davice Justification
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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	JUSTIFICATION	(\$000)							Date	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)	em (if applica	ible)		IOC Date	Equipme	Equipment Nomenclature	<b>.</b>		PE	
OPA3 NSTD						40 FY98	NAG	NAD101 MILES 2000	00		<b></b>	644715
Training Device		Delivery	Ready for Training	Average Student	<u> </u>	Prior Years	3	Current Year	B	Budget Year 1	Band Band	Budget Year 2
by Type	Site	Date	Date	Throughput	Oty	Cost	ûty	Cost	Oty	Cost	Oty	Cost
MILES TACTICAL ENGAG TRNG SYS	ARMY WIDE	AUG 96	AUG 96	N/A	0	0	465	12399	3451	16538	8490	38521
				,								
												<b>,</b>
			·									
			P.1 SHOP LIST ITEM NO.		PAGE NO.			EXHIBIT-43, PAGE 2 of 6	PAGE	2 of 6		
			, ,	156 A		2a						

SIMULATION AND TRAINING DEVICE JUSTIFICATI	DEVICI	E JUSTIFICA	TION (\$000)	)00)					Data sta		FEBRUARY 1995	1995
Training Device by Type						Weapen System (if applicable)	m (if appli	cable)				
OPA3 NSTD										•		
Description/Justification								·				
MAD101 GUARDFIST!												
	۵	Prior Years	5	Current Year	Bad	Budget Year 1	Bad	Budget Year 2	Cost	Cost to Complete	<u> </u>	Total Cost
	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HARDWARE COSTS												
Device (Hardware)	31	10735	21	5820	\$	8738	28	5375				
ECOs				227		242		297				
Nonrecurring												,
GFE												
Other (Specify) TRANSIT CASES	527	200	357	135	748	284	476	181				
Total Hardware Costs		10935		6182		9264		5853				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		19										
Other (Specify) SUPPORT ENGINEERING SPT PROD TESTING		373 699 480		263		236	<u> </u>	172				
Total Support Costs		1613		484		236		461				
Software Courseware				-			<del> </del>					
TOTAL COSTS		12548		9999	_	9200		6314				·
		P.1 SHOP LIST ITEM NO.			PAGE NO.	•		EXHIBIT-43, PAGE 3 of 6	3, PAGE	3 of 6	:	
			156	V ·		9a						

SIMULATION	N AND TRAIN	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	STIFICATION (	(000)			Date	FEBRUARY 1995	95
Appropriation/P-1 Line Item	Line Item		Wespons System (if applicable)	applicable)		Equipment Nomenclature	ature		PE
OPA 3 TRAIL	OPA 3 TRAINING DEVICES, NON-SYSTEM	ION-SYSTEM				NA0101 TWGSS/PGS	GSS/PGS		644715
Fin Plan	Prier Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Prec	15.9	11.9	24.3	21.9	22.0	20.0	11.0		127.0
RDT&E						·			
\$\$0		0.2	1.2	1.5	2.2	2.7	3.1	3.1	14.0
TRAINING S	TRAINING SYSTEM DESCRIPTION.	SIPTION.		,					

DEVICE USED FOR PRECISION GUNNERY ON CREW TANK AND BRADLEY GUNNERY TABLES DAYNIGHT AND TRAINING AT PLATOON, COMPANY AND BATTALION LEVEL DURING FORCE-ON-FORCE EXERCISES. DEVICE WILL: SIGHTS AND SIMULATES BURST OVER CALCULATED IMPACT POINT: SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MINING GUN (120MM, 105MM, 25MM) 7.82MM COAX MACHINE GUN AND TOW WEAPONS SUPERINTOSE REAL TIME TRACER IMAGE OVER SIGHT PICTURE IN GUNNER'S SIGHTS AND SIMULATE BURST OVER CALCULATE? \*\*\* ACT POINT. SYSTEM OPERATES IN REAL TIME AND SIMULATES THE MAIN GUN SYSTEM. AURAL EFFECTS ARE PROVIDED TO CREW ALONG WITH SIGHT OBSCURATION. SYSTEM HAS ONBOARD DISPLAY FOR CREW EVALUATION (ALSO BIT AND AMMO COUNT) AND A PRINTED EVALUATION IS AVAILABLE. TWGSSIPGS CREW WALL UTILIZE FIRE CONTROL AS IF FIRING LIVE AMMUNITION. SYSTEM UTILIZES TIME OF FLIGHT BALLISTICS AND TARGET MODELING INCORPORATING ASPECT ANGLE, TYPE AMMUNITION, RANGE, ARMOR, TILE/CANT AND DEFILADE CONDITION TO DETERMINE TARGET VULNERABILITY.

QUALIFICATION EXERCISES, BUT DOES NOT SUSTAIN THE CREW'S GUNNERY SKILLS. TH!!" - " "DONS LETHALITY DEGRADATION OCCURS IN BETWEEN PEAK GUNNERY PERIODS. THE TWGSS/PGS WITH ITS ABILITY TO BE USED ANYWHERE, WILL ALLOW THE ACTIVE COMPONENT, NATIONAL GUARD, AND ARMS ASSENDEND FOUR TO TRAIN AND HONE GUNNERY SKILLS ON A YEAR ROUND BASIS. AT ANY LOCATION (MOTOR POOL) THE BASIS FOR MUCH OF THE GUNNERY TRAINING AND SUSTAINMENT. WITH TWGSS WE HAVE, FOR THE FIRST TIME, THE ABILITY TO ANALYZE ERRORS AND PROVIDE AN ACCURATE EVALUATION OF THE CREW AND I.I.A. MIA, ARMORY). THIS ENSURES THAT THE ARMOR FORCE MAINTAINS ITS COMBAT CAPABILITY AT ALL TIMES. TWGSSIPGS IS ONE OF THE CORNERSTONES OF THE COMBINED ARMS TRAINING STRATEGY. IT IS AVAILABILITY IS LIMITED. THE TWGSSIPGS IS NEEDED TO TRAIN 40% OF THE COMBAT CAPABILITY OF THE ARMY AND RESERVE COMPONENTS. CONTINUING FULL CALIBER AMMUNITION AND OPTEMPO RESOURCE TWGSSIPGS IMPROVES CREWIGUNNER'S ABILITY TO RESURD THE TANKS BY RELOCATING BALLISTICS, PROBABILITY OF HITPROBABILITY OF KILL AND ANGLE OF KILL WHEN ASSESSING TARGET HITS WITHOUT RESTRICTIONS HAVE INCREASED THE PROBLEM OF ANNUAL PEAK GUNNERY PROFICIENCY FOLLOWED BY PROFICIENCY SLUMP FOR THE ACTIVE COMPONENT, NATIONAL GUARD, AND RESERVES. SIMULATED NON-UNIT GUNNERY CAPABILITIES ALL WITHOUT FIRING FULL CALIBER AMMUNITION. TWGSSIPGS IS THE ONLY CURRENT DEVICE CAPABLE OF PROVIDING THE UNIT WITH A TRANSITION AND SUSTAINMENT GUNNERY THIS SYSTEM. UNITS WILL NOT BE ABLE TO TRAIN PRECISION GUNNERY SKILLS USING THE ACTUAL TANK, OTHER THAN DURING LIVE FIRE ON RANGES. THIS IS ESPECIALLY CRITICAL IN AREAS WHERE RANGE FIRING CREW DRILLS, SUBCALIBER FIRING, AND ACTUAL MAIN GUN FIRING ARE THE CURRENT METHOD OF OBTAINING GUNNERY PROFICIENCY. THIS STRATEGY WILL PEAK THE VEHICLE CREWS DURING CAPABILITY ANYTIME, ANYWHERE.

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			P.43 Simulator & Training Device Justification

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	JUSTIFICATION	(\$000)		1					\$	FEBRUARY 1995	986	
Appropriation/P-1 Line Item		Weapon System	om (if applicable)	Ele)		10C Date	Equipmes	Equipment Romenclature			ЬE	
OPA3 NSTD						20 FY95	MAO	NAO101 TWGSS/PGS	S.		_	644715
Training Device		Delivery	Ready for Training	Average Student	ä	Prior Years	2	Current Year	Bad	Budget Year 1	Bad	Budget Year 2
by Type	Site	_	-	Throughput	Δίζ	Cost	Oty	Cost	Oty	Cost	Oty	Cost
TWGSS/PGS	ARMY WIDE	20 FY95	20 FY95	NIA	63	15918	189	11891	464	24295	391	21856
										-		
												٠.
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			,									
			P-1 SHOP LIST ITEM NO.	_	PAGE NO.			EXHIBIT-43, PAGE 2 of 6	PAGE 2	2 of 6		
			1	156 A		lla						

SIMULATION AND TRAINING DEVICE JUSTIFICATIO	DEVIC	E JUSTIFICA	TION (\$000)	(000					į		EFREIIABY 100E	1005
Training Device by Type			,			Washan Svetem iff anniechiel	m fif annli	labilat				000
OPA3 NSTD												
Description/Justification												
NAD101 TWGSS/PGS		٠										
Financial Plan		Prier Years	S.	Current Year	Bac	Budget Year 1	Ba Ba	Budget Year 2	Ç.	Cest te Complete		Tetal Cost
	E)	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HAKUWAKE COSIS												
Device (Hardware)	<b>8</b>	11028	<b>8</b>	11831	464	24170	391	21703				
ECOs		612		09		73		101				
Konrecurting												
GFE												•
Other (Specify)												
Total Hardware Cests		11638		11891		24243		21804				
SUPPORT COSTS												
Special SE												
Integrated Logistics Support		1081										
Other (Specify) CNTR ENG SPT		612				52		52				
PROD TESTING/SPT		2587										
Total Support Costs		4280				52		52				
Software/Courseware												
TOTAL COSTS		15918		11891		24295		21858				
		P.1 SHOP LIST ITEM NO.			PAGE NO.			EXHIBIT-43, PAGE 3 of 6	PAGE 3	of 6		
			156 A	۰	-	12a						

		WINITED AND TOTAL		ATITION TION	10001		Dete		
		SIMULATOR AND TRAINING DEVICE JUSTIFF	IG DEVICE JU	SIIFICALIUR (*UUU)	(anna)				February 1995
Appropriation/P-1 Line Item	1 Line Item		Weapon System (if appli	if applicable)		Equipment Nemencleture	clature		PE
OPA 3	NON-SYSTEM TRAINING DEVICES	INING DEVICES				CSSTSS			644715
Fin Plan	Prier Yeers	Current FY	PY1	BY2	BY2+1	BY2+2	BY2+3	872+4	Total
Quantity									
Pree	•	•	1,4	6.2	9.0	•	•	1	12.2
RDT&E	21.8	2.3	3.9	8		3	7	1	787
05.8								1	
TRAINING SYS	TRAINING SYSTEM DESCRIPTION:	on:	-						

IOT PRESENT IN THE TRAINING AUDIENCE. THE AUDIENCE DOES NOT DISCERN THE PRESENCE OF THE COMPUTERS MODEL DURING AN EXERCISE. TRAINING AUDIENCE CONSISTS OF CSS COMMANDERS AND THEIR STAFFS. THE SYSTEM WILL BE CAPABLE OF INDEPENDENT OPERATION (CSS ONLY) OR LINKED OPERATION WITH COMBAT IARDWARE SUITES FOR 3 BCP'S AND 4 AUGMENTATION SETS FOR CORPS SITES ALREADY HAVING CBS HARDWARE IN FY98. ALSO PLAN TO PROCURE 2 FULL SUITES, HE COMBAT SERVICE SUPPORT TRAINING SIMULATION SYSTEM (CSSTSS) CONSISTS OF A COMPUTER MODEL AND NECESSARY COMPUTER SYSTEM HARDWARE FRAINING DEVICES (CBS). INTERFACE WITH THE COMBAT SERVICE SUPPORT CONTROL SYSTEM (CSSCS) IS PLANNED. CURRENT PLANS ARE TO PROCURE 3 FULL WHICH INTERFACES WITH AN EXERCISE CONTROL GROUP (ECG) VIA WORKSTATIONS. THE ECG PLAYS THE ROLE OF SUBORDINATE COMMANDERS AND STAFFS 2 AUGMENTATION SETS, AND 3 PARTIAL SUITES IN FY97.

EXHIBIT-43, Page 1 of 6 P-43 Simpletor & Training Beries Justif 13a 156 A SHOPP LIST ITEM NO

	SIMULATOR AND TRAINING DEV	RAINING DE	VICE JUSTIFICATION (Page 2) (\$DDD)	CATION (	2900 2	(\$000)				EFEBRITARY 40	400F	
Accreation/P. 1 line Item	SPA 3	7										
NOR SYSTEM TRAINING DEVICES		wespon system (if applicable)	ii spplicable)		TOC Date		Equipment C88188	Equipment Nomenclature CSSTSS			W.	RAA715
Training			Ready for	Average	Ē	Prier Years	2	Current Year	Ē	Budget Year 1	å	Budget Year 2
Davice By Type	218	Delivery Date	Training	Student	2	<u>۽</u>	į	1				
CSSTSS	75TH DIV	Aug-96								1100	À	2002
	HOUSTON, TX								-			
CSSTSS	78TH DIV	Aug-96	Sep-96							1100		
	EDISON, NJ	1										
CSSTSS	85TH DIV	Aug-96	Sery-96						-	1100		
	ARLINGTON HEIGHTS	,	•									
CSSTSS	I CORPS	Jan-96	Feb-96						-	757		
	FT LEWIS								'			-
CSSTSS	III CORPS	Feb-96	Mar-96		Γ				-	257		
	FT H000								•			•
CSSTSS	V CORPS	Mar-96	Apr-96						-	257		
	FRANKFURT, GE								•			
CSSTSS	XVIII CORPS	Apr-96	May-96						-	257		
	FT BRAGG											
CSSTSS	WTH DIV	Mar-97	Apr-97									1100
	BIRMINGHAM, AL										•	-
CSSTSS	91ST DIV	Mar-97	Apr-97									1100
	CAMP DRAKE, CA										•	
CSSTSS	21 TAACOM	Mar-97	Apr-97								-	713
	KAISERSLAUTEN, GE											
CSSTSS	EUSA	Mar-97	Apr-97								Ī	713
	SEOUL KOREA											
CSSTSS	AMMED	Apr-97	May-97		T						Ī	008
	FT SAM, TX										•	
CSSTSS	USASSC	Apr-97	May-97								1-	58
	FT BEN HARRISON, IN										•	
		P-1 SHOPP LIST ITEM IN	÷		740E IM.							
			158 A	A		<b>*</b>			EXHIBIT	EXHIBIT P.43, Page 2 of 8		
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SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	JUSTIFICATION	(\$000)							ä	FEBRUARY 1995	966	
Appropriation/P-1 Line Item		Weapon System (i	em (if applicable)	ble)		IOC Date	Equipme	Equipment Nomenclature			<b>H</b>	
OPA 3 NSTD							CSSTSS	SS			•	644715
Training Device		Delivery	Ready for Training	Average Student	<u> </u>	Prior Years	Car	Current Year	2	Budget Year 1	8	Budget Year 2
by Type	Site	Date	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
CSSTSS	USA OM&M C&S REDSTONE	APR 97	MAY 97							-	1	800
								,				
												į
			P-1 SHOP LIST ITEM NO.		PAGE NO.			EXHIBIT-43, PAGE 2 of 6	PAGE	2 of 6		
			1	156A	15a							

	218	SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)	RAINIE	NG DEVICE JUS	TIFICAT	10N (Page 3) (\$0	(001			DATE	FEBRAU	FEBRAURY 1995
Training Dovice by Type		OPA 3 Non-System training devices	AINING E	EVICES	Weapon	Weapon Systom (if applicable)	(e)qe			·		
Description/Justification												
NA0103		CSSTSS										
Financial Plan		Prior Years		Current Year	B	Budget Year 1	ā	Budget Year 2	Cost	Cost to Complete		Tetal Cest
	Δtλ	Cest	Oty	Cost	Oty	Cest	Oty	Cost	Oty	Cest	Oty	Cest
HARDWARE COSTS				·								
Dovice (Hardware)					7	4323	7	6026				
ECOs												
Monrocurring												
GFE								·				•
Other (Specify)												
Tetal Hardware Costs						4323		8028				
SUPPORT COSTS												
Special SE												
Integrated Legistics Support		:										
Other (Specify)												
Total Support Casts						,						
SaftwarejCeurseware												
TOTAL COSTS						4323		6026				
(		P-1 2010FP LIST 1TEM 100.	8 A	168				EXHIBI	EXHIBIT P-43, Page 3 of 6	ge 3 of 6		

SIMULATION	N AND TRAIN	SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	STIFICATION (	\$000)			Date	FEBRUARY 1995	35
Appropriation(P-1 Line Item	Line Item		Weapons System (if applicable)	applicable)		Equipment Nomenclature	ıture		PE
OPA 3 TRAIL	OPA 3 TRAINING DEVICES, NON-SYSTEM	ION-SYSTEM	··			NA0106 SAWEIMILES II	rejmiles II		644715
Fin Plan	Prior Years CURRENT FY	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc	123.2	9.4	3.3	16.9			•		152.8
RDT&E	3.1		. 2.6						5.7
0\$8		2.8	3.5	0.5	0.2	0.2	0.2	0.2	7.6
		100124100							

# TRAINING SYSTEM DESCRIPTION:

THE SIMULATED AREA WEAPONS EFFECT-RADIO FREQUENCY (SAWE-RF) PROVIDES A MEANS TO SIMULATE ACCURATELY AND IN REAL TIME THE EFFECTS OF INDIRECT FIRE, MINES AND NBC. THE SYSTEM IS INTEGRATED WITH A BLOCK UPGRADE TO THE EXISTING MILES SYSTEM AND WILL BE DEPLOYED IN FIELD TRAINING TO COMBAT TRAINING CENTERS (CTCs) TO SUPPORT FORCE-ON-FORCE TRAINING.

P.1 SHOP LIST	PAGE NO.		_
ITEM NO.		EXHIBIT-43, PAGE 1 of 6	_
156A	17a	P43 Simulator & Training Device Justification	

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	IICE JUSTIFICATI	ON (\$000)							Date e	FEBRUARY 1995	1995	
Appropriation/P-1 Line Item		Weapon System (if applicable)	em (if applica	(P)(		10C Date	Equipme	Equipment Hemenclature			E E	
OPA3 NSTD					-	10FY94	MAO10	NAO106 SAWE/MILES II	=		-	644715
Training Dovice		Delivery	Ready for Training	Average Student		Prior Years	3	Current Year	Bud	Budget Year 1	Bad	Budget Year 2
by Type	Site	Date	Date	Throughput	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
VDD/MITS/M8A1	СТС	10FY94 *	10FY94 *	N/A	2823	36902			82	1310	4172	7079
PDD	СТС	10FY94 *	10FY94 *	NIA	6899	55679					20	2000
OTHER PROG COSTS						29508		9445		2042		4805
AV CUE					1925	1152						
		* ABOVE	DATES OF	10FY94 AR	E FOR OI	ABOVE DATES OF 10FY94 ARE FOR OLD CONTRACT	<b></b>				·	
		DATES FOI	FOR NEW C	R NEW CONTRACT ARE 10FY97	ARE 10F	787						
					11437	123241		9445	82	3352	4222	16887
			P-1 SHOP LIST ITEM NO.	•	PAGE NO.			EXHIBIT-43, PAGE 2 of 6	PAGE 2	2 of 6		
			7	156 A	18a						(	

Training Device by Type			•	•								
						Weapon System (if applicable)	n (if applic	able)				
OPA 3 NSTD												
Description/Justification							i		: :			
NA1016 SAWEMILES II												
Financial Plan	4	Prior Years	وَدَ	Current Year	Bud	Budget Year 1	Bad.	Budget Year 2	Cost	Cost to Complete		Tetal Cost
	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost	Oty	Cost
HARDWARE COSTS												
Device (Hardware)	11437	93733			92	1310	4222	12079				
ECOs				5400		202		1585				
Nonrecurring												•
GFE					•							
Other (Specify)												
Total Hardware Costs		93733		5400		1512		13664				
SUPPORT COSTS												_
Special SE												
Integrated Logistics Support						150		1500				
Other (Specify)		29048	The b	4045		1690		1723				
Total Support Costs		29048		4045		1840		3223				
Software Courseware												
TOTAL COSTS		122781		9445		3352		16887				
		P.1 SHOP LIST ITEM NO.			PAGE NO. ,	_		EXHIBIT-43, PAGE 3 of 6	, PAGE 3	1 of 6		·
				156 A	19a	1						

REPORTS CONTROL SYMBOL
DD-COMP(AR)1092
B

### UDGET ITEM JUSTIFICATION SHEE

CLOSE COMBAT TACTICAL TRAINER (CCTT)

P-1 ITEM NOMENCLATURE

DATE FEBRUARY 1995

APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT

OTHER SUPPORT EQUIPMENT								(NA0170)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 0	FY 1
QUANTITY								
COST(IN MILLIONS)	7.1 *	31.8	30.7	88.5	98.5	109.7	27.1	15.8

#### DESCRIPTION:

SEMI-AUTOMATED FORCES THAT PROVIDE COMBAT SUPPORT, COMBAT SERVICE SUPPORT AND BOTH FRIENDLY AND OPPOSING FORCES. IT WILL TRAIN CREW THROUGH BATTALION LEVEL COMBAT LELEMENTS OF CLOSE COMBAT UNITS OF BOTH THE RESERVE COMPONENT (RC) AND ACTIVE COMPONENT (AC) IN THEIR COLLECTIVE TASKS AS DEFINED IN THE MISSION TRAINING PLAN (MTP) FOR THOSE UNITS. THE ARMY WILL FIELD 546 SIMULATORS TO TWELVE FIXED COMPANY LEVEL SYSTEMS AND TWENTY-ONE WOBILE PLATOON-LEVEL SYSTEMS. EACH FIXED SYSTEM WILL CONTAIN OF THIRTY-EIGHT SIMULATOR MODULES, IS BASED ON THE LOCATIONS OF AC DIVISIONS AND REGIMENTS, AND WILL SERVICE BOTH AC AND RC UNITS. THE MOBILE PLATOON SYSTEMS CONTAIN FOUR SIMULATOR MODULES IN THE TANK PLATOON VERSION AND SEVEN SIMULATOR MODULES IN THE INFANTRY/CAVALRY PLATOON VERSION. DEDICATED TO THE RESERVE COMPONENTS, THESE MOBILE SITES WILL BE BASED OUT OF ACTIVE COMPONENT INSTALLATION TRAINING SUPPORT CENTERS (TSC'S) BUT WILL TRAVEL TO RESERVE COMPONENT UNIT ARMORIES FOR TRAINING AT HOME STATION. EIGHT QUICKSTART SITES CONTAINING SIXTY-EIGHT TANK AND BRADLEY FIGHTING VEHICLE MODULES WILL BE FIELDED FROM LATE FY95 THROUGH FY96 INTO EXISTING SIMNET FACILITIES AFTER ABBREVIATED TESTING AND ARMY LEVEL RELEASE. THE BALANCE OF THE PRODUCTION REQUIREMENT AMOUNTS TO 11 FIXED SITE CLOSE COMBAT TACTICAL TRAINER (CCTT) WILL BE A NETWORKED SYSTEM OF MANNED SIMULATORS (TANK, BRADLEY, FIST-V, HHMMAV, M113A3) SUPPORTED BY EMULATORS AND SYSTEMS AND 19 MOBILE SITE SYSTEMS.

#### JUST I FICATION:

SIMNET-T SITES. THIS IS TWO YEARS PRICK TO THE FIELDING OF THE OBJECTIVE CCTT SYSTEM. THE ACTIVE AND RESERVE COMPONENTS NEED THE CAPABILITY TO TRAIN THE TOTAL COMBINED ARMS FORCE ON A SIMULATED, FULLY INTERACTIVE REALTIME BATTLEFIELD. THE NEED IS TO TRAIN AND SUSTAIN COLLECTIVE (CREW THROUGH BATTALION) TASKS AND SKILLS IN COMMAND AND COMMAND AND COMMAND AND COMMAND AND COMMAND AND CONTROL, COMMUNICATIONS AND MANEUVER, AND TO INTEGRATE THE FUNCTIONS OF COMBAT SUPPORT SERVICE SUPPORT UNITS. THIS IS IN RESPONSE TO URGENT TRAINING REQUIREMENT ROUTES. TWO ITEMS ARE NEEDED FOR THIS SOLUTION TO WORK: THESE QUICKSTART SIMULATORS WHICH WILL PROVIDE, WITH THEIR COMMANDER'S POPPED HATCH CAPABILITY, A BETTER VIEW OF THE ELECTRONIC BATTLEFIELD THAN IS AVAILABLE IN THE SIMNET-T SIMULATOR MODULES, AND ALSO IMPROVED SIMNET-T TERRAIN TO TRAIN ON. THE FY 96 FUNDS COMPLETE THE PROCUREMENT OF QUICKSTART MODULES. THE QUICKSTART IS AN OPTION UNDER THE CCTT CONTRACT WHICH PROVIDES FOR THE EARLY PRODUCTION AND FIELDING OF COMMANDER POPPED-HATCH SIMULATORS INTO FIXED FACILITY SIMPLET OF THE CAPABILITY TO TRAIN THE TO SIMNET-T SITES. THIS IS TWO YEARS PRIOR TO THE FIELDING OF THE OBJECTIVE CCTT SYSTEM. THE ACTIVE AND RESERVE COMPONENTS NEED THE CAPABILITY TO TRAIN THE TO 97 FUNDS SUPPORT THE INITIAL PRODUCTION OF THE CCTT SYSTEM WITH THE PURCHASE OF 109 MODULES FOR FIXED SITE LOCATIONS AND 25 MOBILE MODULES.

FY94 FUNDING FROM NON-SYSTEMS TRAINING DEVICES (NA0100) PROVIDED LONG LEAD IMAGE GENERATOR COMPONENT SETS FOR 68 QUICKSTART MODULES. NOTE:

Page of Pages	EXHIBIT P-40
	UNCLASSIFIED
P-1 SHOPPING LIST	ITEM NO 157 PAGE NO 1 OF 6
	DD Form 2454, JUL 88

WEAPON SYSTEM COST ANALYSIS	S		A. Appropriation/Budget	doet	B. WEAPON		C. LORAL FEDERAL SYSTEMS COMPA		D DATE
EXHIBIT (P-6)			OTHER PROCUREN	OTHER PROCUREMENT ARMY: ARMY	MODEL/SERIES/POPULAR	*	ORLANDO, FL	_	FEBRUARY 1998
		(NA0170)	OTHER SUPPORT EQUIPMENT	EQUIPMENT	NAME				
Weapon System Cost Elements	Ident. Code	FY 94 Unit Cost	Qty Total Cost	CY 95 Unit Cost	Qty Total Cost	BY1 96	Oty Total Cost	BY2 97	Oty Total Cost
CCTT	8					1500 1110	1800	1600 1110	Total cost
A. QUICKSTART IMAGE GENERATOR COMPONENT SETS		104000	68 / *7072						
B. QUICKSTART MODULES				859412	34 / 29220	850824	34 / 28928		
C. FIXED SITE MODULE								545982	109 / 59512
D. MOBILE MODULES								1136600	25 / 28415
E. QUICKSTART/SIMNET SYSTEM INTEGRATION					1388		610		
F. PRODUCTION ENGINEERING SUPPORT					1200		1117		593
• FUNDED FROM NA0100									
			,			,			
						a+à.			
									-
			7072		31808		30655		88520

BUI	BUDGET PROCUREMENT HISTORY AND	REMENT HIS	TORY AND PLANNA	EXHIBIT (P-5A)	(P-5A)			A. DATE	FEB	kY 1995
B. APPROPRIATION/BUDGET ACTIVITY	/BUDGET ACTI	VITY		Г	C. P-1 ITEM NOMENCLATURE	OMENCLA	TURE			
OTHER PROCUREMENT ARMY: ARMY 3	ENT ARMY: AR	RMY 3	OTHER SUPPORT EQUIPMENT		CLOSE COMBAT TACTICAL TRAINER (CCTT)	3AT TACTIC	AL TRAIN	ER (CCTT)		(NA0170)
Cost Element	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SDECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	84	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			MON	REQ'D	AVAILABLE
A. QUICKSTART IMAGE	LORAL,	C/CPIF	NAVAL AIR WARFARE	Mar-94	30-Inf	89	104000	YES		
GENERATOR	ORLANDO, FL	OPTION	CENTER, ORLANDO, FL			-	-			
COMPONENT SETS/										
FY 94						,				
B. QUICKSTART	LORAL,	C/CPIF	NAVAL AIR WARFARE	Oct-94	Jul-95	8	859412	YES		
MODULES/FY95	ORLANDO, FL	OPTION	CENTER, ORLANDO, FL							
B. QUICKSTART	LORAL,	C/CPIF	NAVAL AIR WARFARE	Oct-95	Mar-96	34	850824	YES		
MODULES/FY96	ORLANDO, FL	OPTION	CENTER, ORLANDO, FL							
									•	
C. FIXED SITE	LORAL,	C/CPIF	NAVAL AIR WARFARE	May-97	96-Inf	109	545982	ON.		Sep-95
MODULES/FY97	ORLANDO, FL	OPTION	CENTER, ORLANDO, FL							
D. MOBILE	LORAL,	C/CPIF	NAVAL AIR WARFARE	May-97	Oct-98	25	1136600	ON.		Sep-95
MODULES/FY97	ORLANDO, FL	OPTION	CENTER, ORLANDO, FL						7.0	

D. REMARKS

Item No 157 Page No 3 of 6

P-1 SHOPPING LIST

Page 1 of 3 Pages

DD Form 2446-1, JUL 87

[ #8 # ] COD	TEM DESC	7 O II T	DATE FEBRUARY 1995	8		RE	REPORT CONTROL SYMBOL DD-COMP(AR)1092	YMBOL 192
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			CLOSE COMBAT TACTICAL TRAINER (CCTT)	URE CAL TRAINER (CCT	13			
								(NA0170)
CURRENT DEVELOPMENT AND TEST STATUS	S			-				
			08	SCHEDULE DATE				
		CURRENT	LAST REPORTED		ž	REASON FOR DELAY	<b>&gt;</b>	
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	MAY 96 APR 97	MAY 96 APR 97					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	WICE USE APR 97							
EQUIPMENT ITEM(S) TO BE REPLACED								
W/A							•	
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	EQUIPMENT TO B	E REPLACED						
DEVELOPMENT CONTRACT INFORMATION			RDT&E FUNDING PROFILE (\$ IN MILLIONS)	MILLIONS)				
CONTRACTOR NAME	PLANT	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	8Y1 96	BY2.97	BEYOND BY'S
LORAL FEDERAL SYSTEMS COMPANY	ORLANDO, FL		CCTT	88 8.	51.4	<b>€</b> *	20.7	12.7
_								
TOTAL RDT&E FUNDING				88.8	51.4	59.5	20.7	12.7
REMARKS								
SR III FAAC WAY ON		P-1 SHOP	SHOPPING LIST			Page	of	Pages
:		ITEM NO 157	PAGE NO 4 OF 6				<b>ЕХНІВІТ Р-19</b>	

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MANUFACTURERS NAME						┧╸	$\dashv$	$\dashv$	+	•						+	+	_	2		_1		12	12					414	₩	<u> </u>	1	0	-	-	-	$\bot$		1	0	0	0	74
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PROPRIA THER PRO	CUREM PORT	ENT:	APPROPRIATION / BLOGET ACTIVITY OTHER PROCURENENT: ARMY 3 OTHER SUPPORT EQUIPMENT	1														P-1 CLOSE	COM!	P-1 ITEM MOMENCLATURE CLOSE COMBAT TACTICAL TRAINER (CCTT)	CLATU CCTIC	AE TR	AINER	33	£	,									;				CNA	(NA0170)
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							Date		
	SIMUL	SIMULATOR AND TRAINING	77	DEVICE JUSTIFICATION (\$000)	N (\$000)			February 1995	
Appropriation	Appropriation/P-1 Line Item		Weapon System	n System (if applicable)		Equipment Nomenclature	menclature	NAUT70	PE
OPA 3 CCTT	TT					Close Combat	Close Combat Tactical Trainer (CCTT)	er (CCTT)	644780
Fin Plan	Prior Years   Current FY	<b>Current FY</b>	BY1	BY2	BY2+1	BY2+2	BY2+3	BY2+4	Total
Ouentity		34	34	134	159	136			497
Proc	7.1	31.8	30.7	88.5	98.5	109.7	27.1	15.8	409.2
RDT&E	88.8	51.4	59.5	20.7	3.1	3.2	3.2	3.2	233.1
<b>S</b> %0			0.4	5	7.5	13.2	13.2	13.2	52.5
TRAINING SY	TRAINING SYSTEM DESCRIPTION:	PTION:							

n their collective tasks as defined in the Mission Training Plan (MTP) for those units. The Army will field 546 Simulators to twelve fixed Platoon systems contain four simulator modules in the tank platoon version and seven simulator modules in the Infantry/Calvary Platoon Close Combat Tactical Trainer (CCTT) will be a networked system of manned simulators (Tank, Bradley, Fist-V, HHMMWV, M113A3) supported by envulators and semi-automated forces that provide CS, CSS and both friendly and opposing forces. It will train crew company level systems and twenty-one Mobile Platoon-Level Systems. Each fixed system will contain a maximum of thirty-eight through battalion level combat elements of Close Combat units of both the Reserve Component (RC) and Active Component (AC) simulator modules, is based on the locations of AC Divisions and Regiments, and will service both AC and RC Units. The Mobile version. Dedicated to the RC, these mobile sites will be based out of AC installation TASC's but will travel to RC unit armories or training at home stations.

P-1 SHOPP LIST ITEM NO.	PAGE NO.	
157 A	la	EXHIBIT-43, Page 1 of 6
	P.	P-43 Simulator & Training Device Justification

	SIMULATOR	SIMULATOR AND TRAINING I	DEVICE JUSTIFICATION (Page 2) (\$000)	ATION (Page	2) (\$0	8			Dete	FEBRUARY 1995	95	
Apprepriation(P-1 Line Item		Wespon System (if applied	(e) (e)		OC Date		Equipmen	Equipment Nomenclature			<u>_</u>	644780
OPA 3 CCTT						Oct-31		Close Cembat Tactical Trainer (CCTT)	ainer (CC		l :	
Training			Ready for	Average	F	Prior Years		Current Year	i	Budget Year 1	Pag	Budget Year 2
Device	• 3	Delivery	Training	Student								
edkı ka	olio	USCO	UBIO	Ihrenghpat	A‡A	Cost	Ą	Cost	۵ţ۸	Cost	ğ	Š
Team/OS	Grafenwoehr	Jan-96	May-96	***			13	11.1				
Team(OS	T80	96-unf	Oct-96	***			9	5.2				
Team/QS	Schweinfurt	Sep-95	Jan-96	***			7	9				
Team/OS	Friedburg	Nov-95	30.30 G	::			_	9				
Team/OS	Кпох	Apr-96	Aug-96	•••			-	0.0	19	16.2		
Team/OS	Benning	May-96	Sep-96	•••					7	5.9		
Team/OS	McCain	96-nuc	0ct-96	•••	í	200			-	0.0		
Team/OS	Stewart	Feb-97	Jun-97	:					7	5.9		
												·
Team/Fixed	Knox	Sep-98	99-usf	•							30	16.4
<b>Team/Fixed</b>	Benning	Oct-98	Feb-99	•••							31	16.9
Team/Fixed	Riley	Nov-98	Mar-99	***							38	20.7
Team/Fixed	Grafenwohnr	Jan-99	May-99	***							10	5.5
Team/Mobile	Benning	Feb-99	99-unf	***							4	4.5
Team/Mobile	Bragg	Mar-99	66-Inf	***							7	8
Team/Mobile	McClellan	Apr-99	Aug-99	•••							4	4.5
Team/Mobile	McClellan	66·unf	Oct-99	**							4	4.5
Team/Mobile	McClellan	Jul-99	Nov-99								9	6.9
	TOTAL						34	29.2	34	28.9	134	87.9
• Sites per contract. Redistribution being determined based on Force	distribution being dete		Restructure.									
***Training hours & related student throughout figures vary with tean	ted student throughpu	t figures vary with tean	n performance, site utilization and training strategy for objectives trained	lization and train	no strat	eav for objec	tives trai	7				
						_						

	EXHIBIT P-43, Page 2 of 6
PAGE 180.	28
P-1 MIGPP LIST FIEM MD.	167 A

	SIR	SIMULATOR AND TRAINING D	MININ	G DEVICE JUST	FICATI	EVICE JUSTIFICATION (Page 3) (\$000)	(00			DATE	FEBRUARY 1995	Y 1995
Training Device by Type OPA 3		CCTT			Veapon	Weapon System (if applicable)	(e) [q					
Description/Justification												
Ž.	MA0100		Clese Cembat	nhat Tactical Trainer (CCTT)	er (CCTT)							
Financial Plan	<u> </u>	Prier Years	õ	Current Year	8	Budget Year 1	ة	Budget Year 2	Cost	Cost to Complete		Tetal Cest
	Oty	Cost	Oty	Cest	Oty	Cost	Oty	Cest	Oty	Cest	Oty	Cost
HARDWARE COSTS												
Device (Hardware)	0	7072	34	29220	34	28928	134	87927	295	207100	497	360247
ECO.												
Nearecuring		·										
GFE												•
Other (Specify)												
Total Hardware Costs		7072	34	29220	34	28928	134	87927	296	207100	497	360247
SUPPORT COSTS												
Special SE				2588		1727		693		1100		6008
Integrated Legistics Support			•							42900		42900
Other (Specify)												
Tatal Support Costs				2688	·- ·	1727		693		44000		48908
Saftware/Causaware												
TOTAL COSTS		7072		31808		30656		88620		251100		409166
		157 А		жет. За				ЕХНІВІ	EXHIBIT P-43, Page 3 of 6	30 3 of B		

			UNC	UNCLY				
REPORTS CONTROL SYMBOL							DATE FEBRUA	FEBRUARY 1995
DD-COMP(AR)1092			<b>3UDGET ITEM JU</b>	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	ET			
APPROPRIATION / BUDGET ACTIVITY	۲			P-1 ITEM NOMENCLATURE	ATURE			
OTHER PROCUREMENT: ARMY 3	<b>6</b>							
OTHER SUPPORT EQUIPMENT				FIRE SUPPORT CON	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1	ICAL TRAINER (FSC	ATT) PHASE 1	(NA0174)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)				22.2	21.0	30.2	27.3	18.7

DESCRIPTION

OPERATIONAL COSTS. FSCATT PHASE I WILL PROVIDE BATTERY-LEVEL TRAINING AND FEEDBACK IN INDIVIDUAL SKILLS, CREW DRILLS, AND PARTIAL UNIT DRILLS IN EXECUTING INDIRECT FIRE (CTCS); AND THE FORWARD OBSERVER TRAINER. NOTE: THE GUARD UNIT ARMORY DEVICE FULL-CREW INTERACTIVE SIMULATION TRAINER (GUARDFIST II) PLAYS THE ROLE OF THE FORWARD FIRE DIRECTION CENTER SIMULATOR; A COLLECTIVE TRAINING CONTROLLER; AND A FORWARD OBSERVER TRAINER INTERFACE. THESE FIVE ELEMENTS WILL BE LINKED TO FORM A NETWORK MISSIONS. FSCATT PHASE I WILL MONITOR ACTIVITIES, RECORD PERFORMANCE, AND PRODUCE AFTER ACTION REVIEW REPORTS. FSCATT PHASE I WILL CONSIST OF THE FOLLOWING FIVE ELEMENTS: A SIMULATOR THAT REPLICATES AN ACTUAL M109A5 SELF-PROPELLED HOWITZER TURRET; STRAP-ON SENSORS FOR SELECTED TOWED AND SELF-PROPELLED HOWITZERS; A OF THREE TRAINING SUBSYSTEMS: THE HOWITZER CREW TRAINER (HCT) SUBSYSTEM (OR HOWITZER STRAP-ON TRAINER SUBSYSTEM); THE COLLECTIVE TRAINING CONTROL SUBSYSTEM OBSERVER IN FSCATT PHASE I, BUT GUARDFIST II IS NOT A PART OF THIS PROCUREMENT. EACH FSCATT PHASE I TRAINING SUBSYSTEM WILL BE CAPABLE OF BEING CONFIGURED TO THE FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) IS A TWO-PHASED EFFORT TO PROVIDE TRAINING OF THE FIELD ARTILLERY GUNNERY TEAM. FSCATT PHASE I WILL PROVIDE INDIVIDUAL AND CREWLEVEL SKILLS TRAINING. FSCATT PHASE II WILL BE A COLLECTIVE TRAINER THAT SIMULATES FIRE SUPPORT WITHIN THE COMBINED ARMS TACTICAL TRAINER. THE GOAL OF FSCATT PHASE I IS TO EXERCISE THE GUNNERY TEAM IN REALISTIC FIRE MISSIONS WITH A REDUCTION IN EXPENDITURE OF AMMUNITION AND RELATED SUPPORT STAND-ALONE, INTERACTIVE, AND CLOSED-LOOP OPERATIONAL TRAINING MODES.

#### ISTIFICATION:

IN THE PAST, FIELD ARTILLERY GUNNERY TEAM TRAINING HAS BEEN CONDUCTED THROUGH THE USE OF LIVE FIRE EXERCISES WHICH LACK REALISM DUE TO SAFETY CONSTRAINTS (E.G. NO FISCAL CONSTRAINTS THROUGH FYOG MANDATE A SIGNIFICANT REDUCTION (APPROXIMATELY 30%) OF AMMUNITION RESOURCES FOR TRAINING UNITS. REDUCED TRAINING RESOURCES TRAIN THE GUNNERY TEAM TO DELIVER ACCURATE AND PREDICTED FIRES WITHOUT THE OPERATING TEMPO (OPTEMPO) AND AMMUNITION COSTS ASSOCIATED WITH LIVE FIRE AND ALSO PROFICIENCY. TO COMPENSATE FOR PROJECTED REDUCTIONS IN AMMUNITION, OTHER REALISTIC AND EFFECTIVE WEAPONS TRAINING ARE REQUIRED. EFFECTIVE USE OF FSCATT WILL AND INCREASING AMMUNITION COSTS PROHIBIT FIRING SUFFICIENT QUANTITIES OF AMMUNITION TO ATTAIN/SUSTAIN THE REQUIRED LEVEL OF FIELD ARTILLERY GUNNERY TEAM ENEMY MANEUVER, OR FIRE). THIS TRAINING IS COSTLY IN TERMS OF RANGE SUITABILITY AND AVAILABILITY, AMMUNITION EXPENDITURE AND TRAVEL RELATED POL COSTS. PERMIT INTEGRATION OF FIELD ARTILLERY UNITS INTO A COMBINED ARMS BATTLEFIELD FOR COLLECTIVE TASK TRAINING.

DD Form 2454, JUL 88 ITEM NO 158 PAGE NO 1 OF 5 EXHIBIT P-40			P-1 SHOPPING LIST			Page	jo	Pages
2.0	DD Form 2454, JUL 88	ON MUTT	PAGE NO 1	7.	UNCLASSIFIED		EXHIBIT P.40	
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D. DATE MONTH/YEAR FEBRUARY 1895	OTY Total cost		. —	84 2940 64 192 33 99	485 340 757 676 288 300 1515	22152
N <sub>O</sub>	BY2 97 Unit cost			3000 3000		
C. MANUFACTURER NAME PLANT CITY/STATE LOCATION	OTY TOTAL COST					
POPULAR	BY1 96 UNIT COST		•			
B. WEAPON Model/Series/Popular Name	OTY Total Cost					
ION/BUDGET No.	CY 95 Unit cost					
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPA - 3	OTY Total cost					
	FY 94 Unit cost					
	IDENT. Code	<b>æ</b>				
WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) (NA0174)	WEAPONS SYSTEM Cost elements	1. FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER	A. COLLECTIVE TRAINING CONTROL SYSTEM B. HOWITZER CREW TRAINER	C. STRAP-ON TRAINER D. AG STRAP-ON TRAINER E. STRAP-ON INSTRUCTOR/OPERATOR	F. IN-HOUSE GOVERNMENT ENGINEERING SUPPORT G. QUALITY CONTROL H. ENGINEERING CHANGES I. DATA J. PRODUCTION TESTING K. CONTRACTOR SUPPORT SERVICES L. INTERIM CONTRACTOR LOGISTICS SUPPORT	

		(NA0174)	IF YES,	WHEN AVAILABLE		SEPT 96		SEPT 96	SEPT 96			SEPT 96						
			SPEC	REV REQ'D					-									
FEBRUARY 1995			SPECS	AVAILABLE NOW		ON		ON	Q.		NO NO	ON	_					
A. DATE		IASE 1	TINO	COST		20000		880000	32000		3000	3000						
		R (FSCATT) PH		QUANTITY		24	-	9	84	,	Z	33						
		TICAL TRAINE	DATE OF	FIRST Delivery		MAY 97		MAY 97	MAY 97		MAY 97	MAY 97						
(t	Æ	ARMS TAC	AWARD	DATE		JAN 97		JAN 97	JAN 97		JAN 97	JAN 97						
LANNING EXICATION (P-5A)	C. P-1 ITEM NOMENCLATURE	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1	CONTRACTED	ВУ		NAVAL AIR WARFARE	CENTER, ORLANDO, FL	NAVAL AIR WARFARE CENTER, ORLANDO, FL	NAVAL AIR WARFARE	CENTER, ORLANDO, FL	NAVAL AIR WARFARE CENTER, ORI ANDO, FL	NAVAL AIR WARFARE	CENTER, ORLANDO, FL					
TORY AND P			CONTRACT	METHOD & TYPE		C/FPAF		C/FPAF	C/FPAF		C/FPAF	C/FPAF						
BUDGET PROCUREMENT HISTORY AND PLANNING EX			CONTRACTOR	AND LOCATION		UNKNOWN		UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN						
BUDGE	B. APPROPRIATION/BUDGET ACTIVITY	OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	COST ELEMENT/	FISCAL YEAR	1. FSCATT	A. COLLECTIVE TNG CONTROL SYS		B. HOWITZER CREW TRAINER	C. STRAP-ON TRAINER		D. AG STRAP-ON TRAINER	E. STRAP-ON INSTRUCTOR!	OPERATOR STATION					

D. REMARKS

OD Form 2446.1, JUL 87

PREVIOUS EDITIONS ARE OBSOLETE ITEM NO. 158 PAGE 3 OF 5

P.1 SHOPPING LIST

Page of Pages EXHIBIT P.5A PROCUREMENT HISTORY AND PLANNING

CODE "8" ITE	CODE "B" ITEM DESCRIPTION		DATE FEBRUARY 1995				REPORT CONTROL SYMBOL	LSYMBOL
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				121	1032
OTHER SUPPORT EQUIPMENT	-		FIRE SUPPORT COMBINED	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE I	(FSCATT) PHASE I			(NA0174)
CURRENT DEVELOPMENT AND TEST STATUS	ratus							
	<u>                                     </u>			SCHEDULE DATE				
		CURRENT	LAST REPORTED		REASON FOR DELAY	OR DELAY		
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) OPER TEST & EVAL (0T&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	JAN 96 JUN 96 SEP 96 SEP 96	JAN 96 JUN 96 SEP 96 SEP 96					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	ERVICE USE	DEC 96						
EQUIPMENT ITEM(S) TO BE REPLACED		NIA						
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	(S) EQUIPMENT TO	) BE REPLACED						
DEVELOPMENT CONTRACT INFORMATION	NO		RDT&E FUNDING PROFILE (\$ IN MILLIONS)	N MILLIONS)				
CONTRACTOR NAME	PLANT	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
UNKNOWN			,	0.4	5. 8.	7.0		
TOTAL RDT&E FUNDING				0.4	5.8	7.0		
	AWARD DELAYE	D DUE TO OSD DIRECTE	D CHANGE OF CONTRACT TYPE F	ROM COST-PLUS TO FIXED	PRICE, AND ADDIT	TIONAL TIME R	EQUIRED TO COA	APLETE SOURCE
2. PROTOTYPES DEVELOPED MAY 95-AUG 98. 3. ACCEPTANCE TESTING OCT 98 · DEC 98.	-AUG 96. EC 96.							
DD Form 2443, JUL 88	<u>a</u> .	P.1 SHOPPING LIST				Page	Jo	Pages
III	ITEM NO 158	PAGE NO 4	0F 5				EXHIBIT P-19	

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REPORTS CONTROL SYMBOL										7	5		2				,							DATE FEBRUARY 1995	IY 1995
APPROPRIATION / BUDGET ACTIVITY	CIWITY											P.1 ITEM	P-1 ITEM NOMENCLATURE	TURE									-		
OTHER SUPPORT EQUIPMENT												F	SUPPORT (	COMBINED	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT) PHASE 1	TICAL TR	AWER (1	FSCATT	) PHASE	_					
PROGRAM QUANTITY	_	_	_	┝		_	FISCA	FISCAL YEAR 97					FISC	FISCAL YEAR 98					H	FISCAL YEAR 99	AR 99			MAU1/4)	_
1 E FT FT FT FT FT FT PROR DUE	FT FT FT FT PRIOR 10	FY FY PRIOR TO	FY PRIOR TO		2 2 2 2 2 2 3 2 3 3 3 3 3				CALENDAR YEAR 97	3 YEAR 9.				-	CALENDAR YEAR 98	YEAR 98					CALE	CALENDAR YEAR 99	IR 99		<b>~</b>
1001 1001	1001 1001	1001 1001	10CT 10CT	1901	_	1-1	OCT NOV DEC		JAN FEB MAR	R APR MAY	3	JU. AUG	SEP OCT NOV	2	JAN FEB MAR APR MAY JUN	APR MAY	JAN 344	A AUG SEP	130	NOV DEC	C JAN FEB	B MAR APR MAY	R MAY JUN	JUL AUG	= 88
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16 0 16 16	6	6			9			<u> </u>			-	2	2	2	2										
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TOTAL MONTHAY PRODUCTION 221 0	122						L.	-	0	6	2	2 2	22	28 28	0	9	-	-	-	╅╸	-	-	-	-	-
001	100	130	730	DCT	0CT	ğ	È	OCT NOV DEC JAN	JAN FEB MAR	R APR MAY	IV JUN JUL		EP OCT NO	DEC JAN	AUG SEP OCT MOY DEC JAN FEB MAR APR MAY JUN	APR MAY	JUN JUL	AUB	8	NOW DE	JAM	&   W   W	NA N	JUL AUG	2 8
STATE OF THE STATE	<del></del>	ott se metreument	and and the	e and a section of the section of th					of authors			PROCE	PROCUREMENT LEAD TIME	D TIME		MEN.	REMARKS:								
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IN 99-1 PAINWANN	14.6	14.6	14.6	14.6	Н	Ì	MAXIMUM		AFTER D DAY		FR TOP	R AFTER	Υ-	MANUFACTURING	TOTAL										
UNKNOWN 2 4	2	<u>-</u>	<u>-</u>	7	7			2			1 OCT	1001		13K	AFTER 1 OCT	KT.									
UNKNOWN 1 2	-			2	2		•	2		MITM		3		2	•	<u> </u>									
UNKNOWN 7 10	7			10	₽	!!		15		REGRUER		-		4	20	Γ									
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ITEM NO		TEM NO	ITEM NO	ITEM NO	TEM NO			158 PAG	PAGE NO	S.	5	ľ				_	UNCLASSIFIED	STRED					Ž	EVUIDIT 0.31	
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SIMULATION	I AND TRAIN	SIMULATION AND TRAINING DEVICE JUST	STIFICATION (\$000)	(0004		:	Date	FEBRUARY 1995	95
Appropriation/P-1 Line Item	Line Item	,	Wespons System (if applicable)	appiloable)		Equipment Nomenclature	ature		PE
OPA 3 TRAII	OPA 3 TRAINING DEVICES, NON-SYSTEM	HOM-SYSTEM				NA0174 FSCATT/PHI	(TT/PHI		644715
Fin Plan	Prior Years	CURRENT FY	BY1	BY2	BY2 + 1	BY2 + 2	BY2 + 3	BY2 + 4	TOTAL
Quantity									
Proc				22.2	21.0	30.2	27.3	16.7	117.4
RDT&E	0.4	5.8	7.0						13.2
\$\$0	•								
TOBIBIES	TO A INITIO OVOTEM DECODING	VAINTION.							

### TRAINING SYSTEM DESCRIPTION:

THE FSCATT SYSTEM (PHASE I) PROVIDES FIELD ARTILLERY BATTERIES WITH THE CAPABILITIES TO CONDUCT INTEGRATED TRAINING WITH FORWARD OBSERVERS, FIRE DIRECTION CONTROLLERS AND FIRING BATTERY PERSONNEL ON A LOCAL NETWORK. FSCATT PHASE I WILL PROVIDE INITIAL AND SUSTAINMENT TRAINING FOR THE ENTIRE GUNNERY TEAM. IT WILL INTEGRATE TACTICAL EQUIPMENT AND SIMULATED HOWITZER DEVICES IN A CLOSED LOOP NETWORK AND CREATE A BATTER-LEVEL COMMAND AND CONTROL TACTICAL TRAINER. THE SYSTEM WILL ALSO PROVIDE ESSENTIAL PERFORMANCE MEASUREMENT DATA FOR THE FIELD ARTILLERY CREWS, WHILE ALSO PROVIDING A MAN-IN-THE-LOOP INPUT TO CLOSE COMBAT TACTICAL TRAINER.

P.1 SHOP LIST	PAGE NO.	
ITEM NO.		EXHIBIT-43, PAGE 1 of 6
158 A	1A	P-43 Simulator & Training Device Justification

		15	rear 2	Cost	22152							
195	PE	644715	Budget Year 2	Oty	221 2							
FEBRUARY 1995	<u>a</u>		Budget Year 1	Cost							of 6	
Date	•	_	Budg	Oty							PAGE 2	
	Equipment Nomenclature	NA0174 FSCATT/PHI	Current Year	Cost			,				EXHIBIT-43, PAGE 2 of 6	
	Equipme	#A017	3	Oty								
	IOC Date	30FY97	Prior Years	Cost								24
			•	Oty							PAGE NO.	
	able)		Average Student	Throughput	WA							158 A
	om (if applic		Ready fer Training	Date	30FY97						P.1 SHOP LIST ITEM NO.	-
(000\$) NOI	Wenpon System (if applicable)		Delivery	Date	30FY97							
ICE JUSTIFICAT				Site	ARMY WIDE							
SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	Appropriation/P-1 Line Item	OPA3 NSTD	Training Device	by Type	FSCATT/PHI							

SIMULATION AND TRAINING DEVICE JUSTIFICATION (\$000)	DEVIC	E JUSTIFICA	FION (\$	(000)					Dets	FEB	FEBRUARY 1995	1995
Training Device by Type						Weapen System (if applicable)	m (if appli	icable)				
OPA 3 NSTD												
Description/Justification												
NA0174 FSCATT/PHI												
Financial Plan		Prior Years	Ca	Current Year	Bad	Budget Vear 1	Bar	Budget Year 2	Cest	Cost to Complete	Ţ	Total Cost
HARDWARE COSTS	Ę,	Cost	Oty	Cost	Oth	Cost	Oty	Cost	Oty	Cost	Oty	Cost
Device (Hardware)							221	17791				
ECOs								757			•	
Nonrecurring												•
GFE												
Other (Specify)												
Total Hardware Cests								18548				
SUPPORT COSTS		,										
Special SE												
Integrated Logistics Support								,				
SPARES/PROVILEMS TESTING/ENG SPT								2191 1413				
Other (Specify)												
Total Support Cests								3604				
Software/Caurseware												
TOTAL COSTS				-				22152				
		P.1 SHOP LIST Item No.			PAGE NO.		_	EXHIBIT-43, PAGE 3 of 6	PAGE 3	of 6		
			158 A			3.4						

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REPORTS CONTROL SYMBOL DD-COMP(AR)1092

## UDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE RECONFIGURABLE SIMULATORS

DATE FEBRUARY 1995

(KA6000)

APPROPRIATION / BUDGET ACTIVITY
OTHER PROCUREMENT: ARMY 3
OTHER SUPPORT EQUIPMENT

	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST(IN MILLIONS)			12.6	16.8	10.7	8.3	4.2	3.4

RECONFIGURABLE SIMULATOR INITIATIVE (BLRSI) PROCURES RECONFIGURABLE SIMULATORS FOR USE IN THE ARMY'S BATTLE LABORATORIES. THESE SIMULATORS WILL PORTRAY A WIDE RANGE OF FUNCTIONALITY AND SPAN ALL BATTLEFIELD OPERATING SYSTEMS (BOS). THE FY 97 BLRSI PROGRAM WILL CONCENTRATE ON GROUND, AIR, AND BATTLE COMMAND VEHICLES AND SYSTEMS. THE SIMULATORS WILL BE FIELDED TO THE FOLLOWING SITES: DISMOUNTED BATTLE SPACE BATTLE LAB (FORT BENNING, GA), AVIATION TEST BED (FORT RUCKER, KY), AND BATTLE COMMAND (CDFs). THE RSP WILL LEVERAGE OFF OVERRCHING ARCHITECTURE FOR RECONFIGURABLE SIMULATORS AND ALLOW FOR FIELDING OF SIMULATORS WITH SUBSTANTIALLY MORE CAPABILITY OF AVIATION AND GROUND THAN CURRENT SIMULATORS AT A SUBSTANTIAL REDUCTION IN COST. THESE SIMULATORS WILL BE FIELDED TO THE AVIATION TEST BED (AVTB) AND OTHER SITES DEEMED NECESSARY BY THE FUNCTIONAL MANAGER FOR DIS. THE SIM UPGRADES (FORT KNOX AND FORT RUCKER) WILL ENHANCE THE CAPABILITIES OF THE SITES CORE SIMULATOR ASSETS. FUNDING FOR THESE ENHANCEMENTS WILL PROVIDE FOR AN ANALYSIS OF USER REQUIREMENTS, THE TECHNICAL APPROACHES AVAILABLE TO SATISFY THOSE REQUIREMENTS, AND THE ACTUAL ENHANCEMENTS. IN ADDITION, THE UPGRADES WILL PROVIDE FOR INCREASED CAPABILITIES TO SIMULATOR VISUAL DISPLAY SYSTEMS, COMPUTER IMAGE GENERATORS, HOST COMPUTER PROCESSING POMER AND NETWORK INTERFACE STANDARDS. THE FY 97 BATTLE LAB THE FY96/97 RECONFIGURABLE SIMULATOR PROGRAM (RSP) PROVIDES SIMULATORS FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES COMMAND (FORT LEAVENWORTH, KS). DESCRIPTION:

ACQUISTION PROCESS.

ACQUISTION PROCESS.

RECOMFIGURABLE SIMULATOR PROCESM VILL FACILITATE ARMY ACCOMPLISHING THE GOALS AND OBJECTIVES FOR FORCE XXI, CUISIAND MANUEUVERS (LAM), SYNTHETIC ACQUISTION PROCESS.

THEATER OF WAR (STOW), NUMEROLOGY DEMONSTRATIONS (ALABS) AND ADVANCED WARFIGHTING EXPERIEMENTS (AMS).

THEATER OF WAR (STOW), NUMEROLOGY DEMONSTRATIONS DEMONSTRATIONS AND ADVANCED WARFIGHTING ASSETS THE SIMULATOR WILL PROVIDE THE COPY OF SYNTHETIC ENVIRONMENT OF DISTRIBUTED INTERACTIVE SIMULATION (DIS). UPGRADES WILL PROVIDE A LEARNING CURVE FOR THE FOLLOW-ON DEPLOYMENT OF BATTLE LAB RECONFIGURABLE SIMULATOR INITIATIVE (BLRS!) OR AVIATION COMBINED ARMS TACTICAL TRAINER (AVCATT) PROTOTYPES. THE BLRS! FOCUSES ON THE EMERGING VIRTUAL SIMULATORS ARE CRUCIAL FOR EXPERIMENTS

IN EVALUATING THE WARFIGHTING IMPACT OF SYSTEMS, PLATFORMS, AND TECHNOLOGIES FOR THE FORCE PROJECTION ARMY. THE KEY IN THE BATTLE LAB PROCESS IS EXPERIMENTATION WITH NEW SYSTEMS AND TECHNOLOGIES, PRIMARILY THROUGH THE MEDIUM OF SIMULATION. BATTLE LABS CHRENT LACK THE SIMULATORS TO EXPERIMENT OF THE SIMULATORS SHOWN ABOVE WILL PROVIDE THE BATTLE LABS TOOLS TO DETERMINE THE WARFIGHTING IMPACT OF A SYSTEMS SHOWN ABOVE WILL PROVIDE THE BATTLE LABS NITH THE NECESSARY TOOLS TO DETERMINE THE WARFIGHTING IMPACT OF A STORY OF A STORY. JUSTIFICATION: SIMULATORS PROCURED FROM THE RECONFIGURABLE SIMULATOR PROGRAM (RSP) FOR USE IN THE ARMY'S CORPS DISTRIBUTED INTERACTIVE SIMULATION FACILITIES (CDFs) LINK WITH TRADOC BATTLE LABORATORIES, RESEARCH AND DEVELOPMENT CENTERS, INDUSTRY AND ACADEMIA TO CHANGE THE CURRENT PARADIGM OF CONDUCTING BUSINESS IN THE MATERIEL VARIETY OF EMERGING SYSTEMS, TECHNOLOGIES, AND CAPABILITIES.

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**UNCLASSIFIED** 

WEAPON SYSTEM COST ANALYSIS			A. Appropriation/Budget	dget	B. WEAPON		C. MANUFACTURER NAME		D. DATE
EXHIBIT (P-5)			Activity Title/No.		MODEL/SERIES/POPULAR	PULAR	PLANT CITY/STATE LOCATION	NO Q	Month/Year
RECONFIGURABLE SIMULATORS		(KA6000)	OPA-3		NAME				FEBRUARY 1995
Weapon System	Ident.	FY94	άξο	CY95	Qty	BY1 96	Qty	BY2 97	Ş
Cost Elements	Code	Unit Cost	Total Cost	<b>Unit Cost</b>	Total Cost	Unit Cost	<b>Total Cost</b>	5	<b>Total Cost</b>
HARDWARE A. HELMET MOUNTED DISPLAY SYSTEM	ω.					70000	4/280		
B. COMPUTER IMAGE GENERATOR	ω.	÷				300000	4/1200		
C. FIBER DISTRIBUTED DATA INTERFACE	60					1000000	1/1000		
D. RECONFIGURABLE AVIATION SIMULATORS	<b>6</b> 0					1200000	4/4800	1200000	2/2400
E. RECONFIGURABLE GROUND SIMULATORS	ω	·				810000	3/2430	810000	10/8100
F. SIMULATOR UPGRADE (FT KNOX)	ω					968667	3/2906	774000	3/2322
G. RECONFIGURABLE FIRE SUPPORT SIMULATOR	Δ.							810000	. 2/1620
H. RECONFIGURABLE BATTLE COMMAND SIMULATOR	ω							2345000	1/2345
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							12616		16787

BUDG ROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5		
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A. DATE

									FEBRUARY 1995	Y 1995
B. APPROPRIATION/BUDGET ACTIVITY	CTIVITY				3. P-1 ITE	C. P-1 ITEM NOMENCLATURE	CLATUR	ш		
OTHER PROCUREMENT: ARMY 3	73				RECONFIG	RECONFIGURABLE SIMULATORS	SIMULAT	ORS	(KA6000)	
Cost Element/	CONTRACTOR CONTRACT	CONTRACT	CONTRACTED	AWARD	DATE OF		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATIO	METHOD	ВУ	DATE	FIRST	QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE		-	DELIVERY			MOM	REQ'D	AVAILABLE
A. HELMET MOUNTED	UNKNOWN	C/CPFF	NAVAL AIR WARFARE	Oct-95	Dec-95	4	70000 YES	YES	YES	Aug-95
DISPLAY SYSTEM FY 96			CENTER, ORLANDO FL							
B COMPLITER IMAGE	UNKNOWN	C/CPFF	NAVAL AIR WARFARE	Oct-95	Dec-95	4	300000 YES	YES	YES	Aug-95
			CENTER, ORLANDO FL		1	•				) ·
C. FIBER DISTRIBUTED DATA	UNKNOWN	C/CPFF	NAVAL AIR WARFARE	Oct-95	Mar-96	-	1000000 YES	YES	9	
INTERFACE FY 96			CENTER, ORLANDO FL							
D. AVIATION SIMULATOR FY96	UNKNOWN	C/CPFF	NAVAL AIR WARFARE	May-96	Oct-96	4	1200000 NO	9		Feb-96
FY 97	UNKNOWN	OPTION	CENTER, ORLANDO FL	May-97	Oct-97	7	1200000	Q Q		Feb-97
				90,7074	1	c	00000	Ç		90 401
E. GROUND SIMULATOR FY 96	UNKNOWN	ויין אַנ	MAVAL AIR WARFARE	May-90	08-13O	1 0	91000			06-09-1 06-09-1
FY 97	ONKNOWN		CENIER, ORLANDO FL	96-150 100	May-97		000010	0 (		os-inc
FY 97	ONKNOWN	OPTION		May-97	) Oct-97	m	810000 NO	9		Feb-96
E. SIM UPGRADE -FT KNOX FY96	FY96 UNKNOWN	C/CPFF	NAVAL AIR WARFARE	May-96	Oct-96	က	968667 NO	9		Feb-96
FY 97	UNKNOWN	OPTION	CENTER, ORLANDO FL	May-97	Oct-97	က	774000 NO	<u>9</u>		Feb-97
O TIMINI ATOB	NWONXNI	7.CPIR	NAVAL AIR WARFARF	04-96	Apr-97	^	810000 NO	C		96-141
		: 5 5	CENTER, ORLANDO FL	5				)		
H. BATTLE COMMAND SIMULATOR FY 97	UNKNOWN	C/CPIF	NAVAL AIR WARFARE CENTER, ORLANDO FL	Oct-96	Apr-97	-	2345000	<u>Q</u>		Jul-96
D. REMARKS										

Previous editions are obsolete

DD Form 2446-1, JUL 87

P-1 SHOPPING LIST

Exhibit P-5A Procurement History & Planning

Item No 159 Page No 3 of 5

5	Mr. Accients							
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CODE "8" I	TEM DESCRIPT	1 O N	DATE FEBRUARY 1995	95			REPORT CONTROL SYMBOL DD-COMP(AR)1092	SYMBOL 1092
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE RECONFIGURABLE SIMULATORS	ATURE IMULATORS				
								(KA6000)
CURRENT DEVELOPMENT AND TEST STATUS	Sn							
				SCHEDULE DATE				
		CURRENT	LAST REPORTED			REASON FOR DELAY	AY	
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) OPER TEST & EVAL (OT&E) AVAIL DATE OF TECH DATA PKG (TDP) OR PERFORMANCE SPECIFICATIONS	PLAN/ACTUAL PLAN/ACTUAL PLAN/ACTUAL	JUN 96 DEC 96 MAY 97						
ESTIMATED DATE OF APPROVAL FOR SERVICE USE	RVICE USE DEC 96							
EQUIPMENT ITEM(S) TO BE REPLACED	SIMNET DEVICES							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	) EQUIPMENT TO BE REPLACED		LEVEL II SIMULATION ENVIRONMENT.				٠	
DEVELOPMENT CONTRACT INFORMATION		RDT&E	FUNDING PROFILE (\$	IN MILLIONS)				
CONTRACTOR NAME	PLANT LOCATION		COMPONENT	THRU PYR	כֿל	BY1	BY2	BEYOND BY'S
UNKNOWN					14500	6139	3745	
TOTAL ROTRE FUNDING				0	14500	6139	3745	0
REMARKS	-							
DD Form 2443, JUL 88	I TEM NO	2-1 SHO	PPING LIST PAGE NO 4 OF 5	UNCLASSIFIED	IFIED	Page	of EXHIBIT P-10	Pages
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APPROPRIATION / MUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	ENENT: T EQUIP	GET ACT ARMY 3	YIIV														P-1	ITEN NF I GU	P-1 ITEM MONENCLATURE RECONFIGURABLE SINULATORS	SINU	LATOR:				<b>]</b> ,												35	(KA6000)
	-		PROGRAM QUANTITY	QUANT	E				-	FISCAL YEAR	EAR 96					1		قا	FISCAL Y	YEAR 97	6	'						33	FISCAL	YEAR	8							٠-
FACILITY	•••	-			-		PRICE	12			۲	CALENDAR	1 -	EAR 96							CALEN	CALENDAR YEAR	EAR 97							┝	CALENDAR YEAR	JAR Y		8				
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FACILITY	3	MANUFACTURERS NAME & LOCATION		w			- 1	PRODUCTION RATES		- 1		T	REACH MAX	2 \$		₹	3	ADMIN LEAD TINE	¥			_			•		_	Ę.			<b>=</b> .		2	TOTAL				
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# BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3

REPORTS CONTROL SYMBOL

**DD-COMP(AR) 1092** 

DATE February 1995 PHYSICAL SECURITY SYSTEMS (OPA3) P-1 ITEM NOMENCLATURE

(MA0780)

FY 01

FY 00

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FY 99 9.3 FY 98 6.9 FY 97 6.2 FY 96 6.2 FY 95 \* 10.1 FY 94 \* 1:1 Other Support Equipment COST (IN MILLIONS) QUANTITY

provide security for exterior perimeters of sensitive facilities will be procured and will eventually be integrated into the ICIDS program. The Alarm Monitor Group Ammunition and Explosive Areas, non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. These components are Detection Systems (CIDS). The ICIDS program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, deprive the United States of these resources prior to armed conflict or to embarrass the Government during peacetime. Physical Security Systems include the requirements of installations on a DA Distribution Plan. The J-SIIDS is an Army Type Classified Standard Interior intrusion detection system used to secure and command and control devices protecting chemical/nuclear and Special Compartmented Information Facilities, sensitive munitions, conventional Arms, Integrated Commercial Intrusion Detection System (ICIDS), the Joint-Services Interior Intrusion Detection System (J-SIIDS) and the Commercial Intrusion DESCRIPTION: Physical Security Systems protect high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to assembled as "systems" to meet the site specific security requirements of installations on a DA Distribution Plan. Air Force developed components which (AMG), a Personal Computer based upgrade to the J-SIIDS, provides a cost effective system meeting basic security communications, control and display arms rooms, nuclear/chemical and conventional ammunition magazines, drug storage, automatic data processing centers, communications and financial capabilities for small site applications where an ICIDS would be inappropriate. These components are assembled as "systems" to meet the site specific facilities. When centrally managed ICIDS or J-SIIDS cannot be used, MACOMs use locally purchased CIDS to secure these resources.

deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON). Goal is to provide security to units, families and facilities; JUSTIFICATION: FY96/97 funds procurement of electronic Physical Security Equipment (PSE). These funds address the modernization of integrated PSE for protection by using available electronic technology instead of employing soldiers/civilian guards to safeguard personnel and Army assets. Funding protects storage/demilitarization facilities; nuclear reactors; conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information personnel, facilities and equipment from terrorists/criminal threats. The procurement portion of the Force Protection Program supports unit readiness and Facilities; and areas designated mission essential and vulnerable. Minimize risks and vulnerabilities by providing commanders with the required levels of intrusion detection and assessment, access control, and electronic surveillance. Provide regulatory required security measures for chemical and to reduce the number of deployable soldiers used for Force Protection missions during mobilization and deployment.

\* Transferred from OPA-2 to OPA-3 starting in FY96.

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ITEM NO 160	PAGE NO 1 OF 7		Ω Π	EXHIBIT P-40

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	>	WEAPON SYS	SYSTEM COST ANALYSIS EXHIBIT	NALYSIS E	XHIBIT			DATE February 1995	ary 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3 Other Support Equipment					P-1 ITEM NOMENCLATURE PHYSICAL SECURITY		SYSTEMS (OPA3)	A3) (MA(	(MA0780)
		MANUFA PLANT CITY See P-5A	MANUFACTURER NAME ANT CITY/STATE LOCATION P-5A	N	WEAPON MODEL/SERIES/POPULAR NAME PSE	L/SERIES/POP	ULAR NAME		
Weapon System Cost Elements	IDENT	FY 94*	Quantity	TOTAL COST FY 95*	TOTAL COST IN THOUSANDS OF DOLLARS FY 95* Quantity FY 96 UNIT COST TOTAL COST	OF DOLLARS FY 96 UNIT COST	Quantity	FY 97 UNIT COST	Quantity
ICIDS ICIDS Hardware	<		က		က		8		4
Engineering Support		•	4,857 933		4,863 866	ł	3,114 443	ŧ	3,077
AMG AMG Hardware	∢			3	30	3			30
Engineering Support		7.7	248	7	350	L7	248	7	248
Subtotal	.,		899'9		6,709		4,435		4,395
J-SIIDS J-SIIDS Hardware	∢	•	504	•	504	•			250
Engineering Support		-	270	-	270	<del>,</del>	100		100
CIDS Anti-terrorism (Force Protection) Engineering Support		: :	2,484	<b>! !</b>	584 2,082		639 766		723 752
Subtotal			4,458		3,440		1,755		1,825
* Transferred from OPA-2 to OPA-3 in FY96.  * "Unit Cost" is site dependent; components are assembled according to individual site security requirements.	elques	d according t	individual sit	te security re	quirements.				
TOTAL			11,126		10,149		6,190		6,220
		ď	P-1 SHOPPING LIST	15				Page	of Pages
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DD-COMP(AR) 1092	2	BUDGE	BUDGET PROCUREMENT HIST	ORY AND	MENT HISTORY AND PLANNING EXHIBIT	XHIBIT	]	DATE February 1995	uary 199	5
APPROPRIATION /BUDGET ACTIVITY	BUDGET ACTIVITY			P-1 ITEM NOI	P-1 ITEM NOMENCLATURE DHYSICAL SECLIDITY	P-1 ITEM NOMENCLATURE DHYSICAL SECLIPITY SYSTEMS (ODA3)	, A 3)			
Other Support Equipment	ent. Allily 3 Equipment				SECONI I		(2)			
										(MA0780 )
		CONTRACT			DATE OF			SPECS	SPEC	IF YES,
COST ELEMENT/	CONTRACTOR	METHOD	CONTRACTED	AWARD	FIRST	•	LIND	AVAILABLE	REV	WHEN
FISCAL YEAR	AND LOCATION	& TYPE	ВУ	DATE	DELIVERY	QUANTITY	COST	NOW	REQ'D	<b>AVAILABLE</b>
ICIDS		:					4	;		
FY9 <b>4</b>	s Corp	C/FP Option	ATCOM	Jan 94	Jun 94	'n	k	Yes	<u>°</u>	
	Alexandria, VA		MOOTA	100	30 40	·	*	>	9	
FY95	Paramax Systems Corp	C/TP Option	ALCOM	Jan 95	CS COAL	<u>o</u> (	: 4	S ;	2 :	
FY96	Paramax Systems Corp	C/FP Option	ATCOM	Jan 96	Mar 96	က	*	Yes	2	
FY97	Paramax Systems Corp	C/FP Option	ATCOM	Jan 97	Feb 97	4	*	Yes	ž	
AMG										
FY94	Federal Prison Ind.,	SS/Option	ATCOM	Ang 94	Jan 95	30	21,000	Yes	ž	
	Big Springs, TX			,	1					
FY95	Federal Prison Ind.,	SS/Option	ATCOM	Feb 95	Jul 95	30	21,000	Yes	ĝ	
FY96	Federal Prison Ind.,	SS/Option	ATCOM	Feb 96	96 Inc	30	21,000	Yes	ŝ	
FY97	Federal Prison Ind.,	SS/Option	ATCOM	Feb 97	Jul 97	30	21,000	Yes	ž	
SOIIS-F	‡									
FY94	CKC Industries, Inc.	C/FP	ATCOM	Jan 94	Mar 94	504	1,000	Yes	§	
!	Tampa, FL			10	30.01	704	7		2	
FY95	TBS	C/TP Option	A SOCIA	Jan 95	CS IRIN	400	000,		2 :	
FY96	TBS	C/FP Option	ATCOM	Jan 96	Mar 96	250	1,000	Yes	දි :	
FY97	TBS	C/FP Option	ATCOM	Jan 97	Mar 97	250	1,000		ဗို	
CIDS	***									

REMARKS

\* "Unit Cost" is site dependent; components are assembled according to individual installation security requirements.

\*\* J-SIIDS components are produced by multiple sources under separate requirements contracts. Deliveries are on a demand basis. CKC Industries

\*\*\* CIDS funds locally purchased, nonstandard, IDS hardware. Funds are MIPR'd to installations for competitive contracts, Project orders or Work Requests.

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			(MA0780)			AUG SEP			AUG SEP	REMARKS • Unit of Mesure is a "system"; a comfguration of components (a	command/control console and associated equipment). Defivery Orders are placed for each system with "manufacturing" being a confinuous	process of site valuation, site design and component assembly and installation.	** Contract is for one year, indefinite quantity, with four (one year)	opfors, providing a "Best Estimate" quantity of 21 installed systems. A minimum/maximum quantity of 10 and 48 systems respectively have been			<b>X</b>	,	
						JUN JUL			긔	on of con	Apment). ng* being	rponent a	with four	/f 21 insta ems resp			Pages	P-21	
	1995				96				MAY JUN	omfgurat	clated equinufacturi	noo pue u	quentity.	quantity c d 48 syst	,		e o	EXHIBIT P-21	
ľ	bruary		(SQ			APR M			APR M	stem"; a c	with me	grae design	Indefirite	stimate" of 10 an			Page	Ш	
	DATE February 1995		M (ICI		AR YEA	3 MAR	Ю	е	MAR	e is a "sy	console ch system	MORTON, 1	one year	n quantity					•
-			PHYSICAL SECURITY SYSTEMS (OPA3) INTEGRATED COMMERCIALINTRUSION DETECTION SYSTEM (ICIDS)	8	CALENDAR YEAR	JAN FEB MAR APR MAY	⋖		DEC JAN FEB MAR APR	KS f Measur	nd/control sed for ea	5 of sife v	act is for	providing	ji	.			
			TION 8		0				낊	* Unit of M	ere plac	process of installation.	Con	opfons, minimu	negoffated.		۵		
			ЕТЕС.	FISCAL YEAR		OCT NOVIDEC			OCT NOV			TOTAL	AFTER	10CT	6	9	UNCLASSIFIED		
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	SCHEDULE	P-1 ITEM NOMENCLATURE	PHYSICAL SECURITY SYSTEMS (OPA3) INTEGRATED COMMERCIALINTRUSION		CALENDAR YEAR	FEB MAR APR	~	-	FEB MAR APR MAY JUN	PR	NIMO		PRIOR	100	4				
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	MBOL	APPROPRIATION ABUDGET ACTIVITY	Other Procurement: Army 3 Other Support Equipment	ACCEP	PRIOR TO						MANUFACIURER'S NAME		Paramax Systems Corporation, Alexandria, VA				DD Form 2445. Jul 87		
	REPORTS CONTROL SYMBOL DD-COMP(AR) 1092	1/BUDG	Other Procurement: Army Other Support Equipment			ΔT	w w w 4			!	A TONI	3	stems				D Form		
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BUDGET ITEM JUSTIFICATION SHEET

P-1 ITEM NOMENCLATURE SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)

APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3

REPORTS CONTROL SYMBOL DD-COMP(AR)1092

Other Support Equipment

DATE FEBRUARY 1995

(MA0070) 7.9/7.4 FY00/01 ₹ . . FY 98 r. FY 97 14.0 FY 96 10.0 FY 95 13.9 FY 94 19.2 COST(IN MILLIONS) QUANTITY

systems and equipment funded within Other Procurement Army, Activity 3, Other Support Equipment. FDT funds provide for the movement of Army equipment, Modification kits, assemblies and components form the manufacturing point to a CONUS depot or other points of first acceptance within the CONUS supply system. (NOTE: Excludes transpotation costs paid by a vendor as prescribed in a procurement contract). TPF is the standard method of fielding new equipment developed under the Army's force modernization program. The materiel developer plans, develops, acquires and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. TPF costs include SLAC items, Deprocessing, Temporary Duty (TDY), Salaries (AIF), DESCRIPTION: System Fielding Support funds provide for First Destination Transportation (FDI), Total Package Fielding (TPF) and New Equipment Training (NEI) for all and Army Stock Fund managed equipment.

JUSTIFICATION: Funds will ensure (1) continued uninterrupted shipment of newly procured items to Army users in support of readiness and training, (2) continued and orderly fielding of force moderniation systems, and (3) the transfer of knowledge from the materiel developer to the trainer, user, and other support personnel.

Pages

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ITEM NO

DD Form 2454, JUL 88

P-1 SHOPPING LIST

DATE FEBRUARY 1995 P-1 ITEM NOMENCLATURE BASE LEVEL COMMERCIAL EQUIPMENT SHEET JUSTIFICATION UNCLASS ¥ ITE 8 U D G E T APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 Other Support Equipment REPORTS CONTROL SYMBOL DD-COMP(AR)1092

₹ % F7 FY 97 FY 96 F7 93 8 8 17.3 COST(IN MILLIONS)

QUANTITY

(MB7000)

FY00/FY01

DESCRIPTION: The Base Level Commercial Equipment (BCE) program funds equipment to support installation operating missions with contracts for the required equipment being awarded by the installation. BCE items are generally commercial, off-the-shelf, non-centrally managed, authorized by Table of Distribution and Allowances (IDA) activities of the Active Army and Reserve components and those Joint Table of Allowances (JTA) activities for which the Army is the executive agent, can be used in a stand-alone mode and not lose its identity on application, and have a unit cost of \$50,000 or more. Examples of these items are: Commercial laundry and Dry Cleaning equipment, Grounds Maintenance equipment, and Dishwashers.

JUSTIFICATION: The BCE program funds virtually all non-standard items with a cost of \$50,000 or more which are not available through the Army Supply System. Twenty-six Major Commands/General Operating Agencies are provided funds from this budget line.

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P-1 SHOPPING LIST ITEM NO 162

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REPORTS CONTROL SYMBOL	BUDGETI	TEM JUS	TIFICATI	ITEM JUSTIFICATION SHEET			DATE	Feb 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3				P-1 ITEM NOMENCLATURE Modification of In-Svc	CLATURE f In-Svc Equip			
Other Support Equipment								(MA4500)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	40.9	36.2	21.9	15.3	19.3	24.6	17	18.5
DESCRIPTION: This budget roll line includes both the procurement and instrallation of modification kits for OPA-3 equipment.	ent and instralla	stion of modifi	cation kits for	OPA-3 equipme	ent.			
SYSTEM / NOMENCLATURE		FY94	FY95	FY96	FY97			
Logistics-Over-The-Shore (LOTS)  Modification Kits Installation of Modifications LOTS TOTALS		2.483 1.200 3.683	8.130 4.381 12.511	6.286 3.231 9.517	7.368 3.920 11.288		·	
Distribution Illumination System, Electric (DISE)  Modification Kits Installation of Modifications  DISE TOTALS		.412 .342 .753						
Environmental Compliance (EC)  Modification Kits Installation of Modifications EC TOTALS		23.373 13.108 36.481	8.153 6.976 15.129					
Combat Service Support Equipment  Modification Kits Installation of Modifications COMBAT SERVICE SPT TOTALS	·	.020	.530 .315	1.345 1.236 2.581				
Bridging Equipment Modification Kits			1.595					
Smoke Obscurant Modification Kits				2.769				
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**EXHIBIT P-40** 

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ITEM NO 165

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	BUDGET	I ITEM JUSTIFICATION	FIFICATI	ONSHEET			DATE	Feb 1995
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3		,		P-1 ITEM NOMENCLATURE Modification of In-Svc	P-1 ITEM NOMENCLATURE Modification of In-Svc Equip			
Other Support Equipment		•						(MA4500)
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (IN MILLIONS)	40.9	36.2	21.9	15.3	19.3	24.6	17.0	18.5
DESCRIPTION: This budget roll line includes both the procurement and instrallation of modification kits for OPA-3 equipment.  SYSTEM / NOMENCLATURE  FY96	ent and instralla	stion of modific FY94	ation kits for FY95	OPA-3 equipme	ent. FY97			
M9 Armored Combat Earthmover (M9 ACE)  Modification Kits			4.482	5.779	2.145			
Installation of Modifications M9 ACE TOTALS			6.106	7.044	3.994			,
								,
MODIFICATION OF IN-SERVICE EQUIPMENT TOTALS SUB-TOTAL MODIFICATION KITS		26.267	22.890	16.179	9.513			
SUB-TOTAL INSTALLATION		14.670	13.296	5.732	5.769			
TOTAL MODIFICATION PROGRAM		40.937	36.186	11.912	15.282			
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DD Form 2454, Jul 88	ITEM NO	165	Page No. 2 of 54	54	ONCLA	UNCLASSIFIED	EXH	EXHIBIT P-40

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REPORTS CONTROL SYMBOL								
DD-COMP(AR) 1092	BUDGET	TEM JUS	TIFICATI	BUDGET ITEM JUSTIFICATION SHEET			DATE February 1995	1995
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	CLATURE			
Other Procurement: Army 3				ž	<b>ODIFICATION</b>	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	IIPMENT (OPA	3)
Other Support Equipment								
								MA4500)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	40.9	30.1	12.1	11.3				

including our Logisitics-Over-The-Shore (LOTS) watercraft, Combat Service Support equipment such as Laundries, Engineering Support equipment DESCRIPTION: This budget line funds ATCOM's OPA 3 modification of in service equipment programs. It is used to procure hardware, materials, equipment is done to correct safety deficiencies, increase mission capabilities, extend the useful life, extend supportability, upgrade to existing and installation to complete the modifications. The items supported by this budget line include the entire range of ATCOM managed systems technology, increase efficiency, and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a such as Diving Recompression Chambers, Bridging, POL and Water equipment, Rail, and Environmental Control equipment. Modifying in use ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new

JUSTIFICATION: The FY 96/97 modification of in service equipment programs supports primarily modernization of LOTS watercraft. The types of programs involved include equipment upgrades, service life extension, and communication, electronics, and navigational (CEN) equipment replace them with new vessels, at considerably greater cost. These funds also support modifications on the Medium Girder Bridge, Laundry upgrades. They support the entire fleet of Army watercraft. Continuing to modify and modernize these vessels precludes the necessity to Units, Refrigerated Containers, and Recompression Chambers. These modifications will allow this equipment to meet existing mission requirements, increase efficiency, and meet current certification requirements

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APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	CLATURE		400 History	ć
Other Procurement: Army 3 Other Support Equipment				¥	MODIFICATION OF IN-SVC ECUTIMENT (OFA-5) Program Summary	Program Summary	JIPMEN LOPE	10-1
								(MA4500)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	40.9	30.1	12.1	11.3				
SYSTEMINOMENCLATURE		FY 94	FY 95	FY 96	FY 97			
Logistics-Over-The-Shore (LOTS) Mo Installation of	Modification Kits Installation of Modifications LOTS TOTALS	2.483 1.200 3.683	8.130 4.381 12.511	6.286 3.231 9.517	7.368 3.920 11.288			
<u>Distribution Illumination System, Electric (DISE)</u> Mo Installation of	ectric (DISE) Modification Kits Installation of Modifications DISE TOTALS	0.412 0.342 0.753			,			
Environmental Compliance (EC)  Mo	JEC) Modification Kits Installation of Modifications EC TOTALS	23.373 13.108 36.481	8.153 6.976 15.129					
31	pment Modification Kits Installation of Modifications CSS TOTALS	0.020	0.530 0.315 0.845	1.345 1.236 2.581				
Bridging Equipment Mc Installation of BRID	Modification Kits Installation of Modifications BRIDGING TOTALS		1.595 1.595					
Modification of In Service Equipment Mo	lement Modification Kits Installation of Modifications MOD TOTALS	26.267 14.670 40.937	18.408 11.672 30.080	7.631 4.467 12.098	7.368 3.920 11.288			
P-1 SHOPPING LIST	IG LIST				CHICAGO	COLUMN	Page	of Pages
DD Form 2454, Jul 88 ITEM NO 165	165	PAGE NO	4	of 54	Carry	SSIFICE	EXHII	EXHIBIT P-40

			UNCLA	UNCLASSIFIED						
REPORTS CONTROL SYMBOL			(\$ in	(\$ in millions)						
DD-COMP(AR) 1092		MODIFIC	CATION	INSTALL	ATION	SUMMARY		DATE February 1995	ary 1995	
APPROPRIATION /BUDGET ACTIVITY Other Procurement: Army 3					P-1 ITEM NOMENCLATURE MODIF	ENCLATURE MODIFICATION	ON OF IN-	SVC EQUIPN	LATURE MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	
Other Support Equipment							Installatio	Installation Summary		( MA4502 )
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FV 00	FY 01	COST TO	TOTAL
SYSTEM/MODIFICATION									COMPLETE	
Landing Craft, Mechanized 8 ton (SLEP)	1.200					•	,			1.200
Landing Craft, Mechanized 6 ton (Equipment Upgrade) Floating Machine Shop (Modernization)		1 438	0.231	0.403						0.634
Crane Barge, 100 Ton (Modernization)		1.302								1.302
Barge, Deck Cargo (Modernization)		0.288		,						0.288
Lighter, Amphibious, Resupply Cargo 60 (SLEP)		000		0.920						1.355
Tug. 100' (Equipment Upgrade)			3.000	2.000						5.000
Marine CEN Equipment Upgrade (Watercraft)	,			0.598						0.596
Detribution Illumination Sys, Elec (Circuit Breaker)	0.342	•								0.342
ROWPU Berge (Halon Removal)		0.168								1.020
Landing Craft Utility 1600 (Halon Removal)		0.240								0.240
Logistic Support Vessel (Halon Removal)		0.210								0.210
Lerge Tug (Halon Removal) AN/TSC:85 (Air Conditions/CEC)	716 0	0.210								0.210
AN/TSC-93 (Air Conditioner/CFC)	664.0	0.451								0.00
AN/ASM-189 (Air Conditioner/CFC)	3.531	0.379								3.910
AN/ASM-190 (Air Conditioner/CFC)	1.866	0.085								1.951
AN/ASM-141 (Air Conditioner/CFC)	0.225	0.450				-				0.225
ESC-38 (Air Conditioner/CFC)	0.289									0.271
AN/ASM-82 (Air Conditioner/CFC)	0.271	0.378								0.649
Landing Craft, Utility 2000 (Refrigeration/CFC)		0.945								0.945
Logisitic Support Vessel (Refrigeration/CFC)		0.360								0.360
Landing Craft Office 1000 (Natrigeration/CFC)		0.338								0.338
Tug. 100' (Refrigeration/CFC)		0.391								0.391
Tug, 65' (Refrigeration/CFC)		0.330								0.330
Crane, 100 Ton (Refrigeration/CFC)		0.391								0.391
Crane, GO Ton (Refrigeration/CFC)		0.040								0.040
Refrigeration Equipment (Power Generation)		0.129	017.0							0.129
Medium Girder Bridge (Equipment Upgrade)			2							2
Leundry Unite (Leundry Water Reuse)		!	0.101							0.101
necompression Chamber, Living (Equipment Upgrade) Deployable Medical Systems (Air Conditioner Upgrade)	0.02	0.315	0.425							0.740
TOTAL	ML 14.670	11.672	4.467	3.920					•	34.728
	•					(				- 1
	£	F-1 SHOPPING LIST	_			385	UNCLASSIFIED		Pege	Pages
ITEM P	ITEM NO 165	PAGE NO	9	of 54					EXHIB	EXHIBIT P.3N
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REPORTS CONTROL SYMBOL		BUDGET 17	ITEM JUST	JUSTIFICATION	ON SHEET			DATE February 1995	1995
APPROPRIATION /BUDGET ACTIVITY						CLATURE			
Other Procurement: Army 3					<b>W</b>	DIFICATION	JF IN-SVC EQU	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3)	-3)
Other Support Equipment						Modif	Modification Kit Summary	nmary	(MA4501)
		FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY									
COST (IN MILLIONS)		26.3	18.4	7.6	7.4	,			
TEM	NAME	M.C.		FY 94	FY 95	FY 96	FY 97		
Landing Craft, Mechanized 8 ton	Service Life Extension Prog	1-82-08-3107		2.483					
Landing Craft, Mechanized 8 ton	Equipment Upgrade	TB0			•	0.346	0.808		
Floating Wechine Shop	Modernization	1-89-08-3123			00				
Baros, Dack Caroo	Modernization	1-89-08-3128			0.349				
Logistics Support Vessel	Modernization	1-90-08-3130			4.582				
Lighter, Amphibious, Resupply Cargo 60	Service Life Extension Prog	180				1.440	2.880		
Tug, 100'	Equipment Upgrade	780 787				4.500	3.000		•
Merine CEN Equipment Opgrade		1.91.08-3307		0.413			0.082		
Distribution literated bys, tied	Circuit Breaker	1.92-08-3307		7.7	1.158				
ROWPU Barga	Helon	1-92-08-3155			0.153				
Landing Craft Utility 1600	Haton	1-92-08-3129			0.144				
Logisitic Support Vessel	Helon	1-92-08-3131			0.204				
Large Tug	Haton	1-92-08-3145			0.245				
AN/TSC-85	Air Conditioner/CFC	1.92-07-1000		0.574	0.497				
AN/TSC-93	Air Conditioner/CFC	1.92-07-1001		0.887	0.802				
AN/ASM-189	Air Conditional/CFC	1-92-07-1002		3 204	0.702				
AN/ASM-190	Air Conditioner/CFC	1-92-07-1004		0.428	2				
ESC-146	Air Conditioner/CFC	1-92-07-1017		10.893	0.894				
ESC-38	Air Conditioner/CFC	1.92.07.1018		0.550					
AN/ASM-82	Air Conditioner/CFC	1-92-07-1019		0.517	0.678				
Landing Craft, Utility 2000	Refrigeration/CFC	1-93-08-3156			0.840				
Logisitic Support Vessel		1.93-08-315/			0.282				
Line 128'	Refrigeration/CFC	1-93-08-3159			0.120				
Tue. 100.	Refrigeration/CFC	1-93-08-3160			0.308				
Tug, 65°	Refrigeration/CFC	1.93.08.3161			0.270				J
Crene, 100 Ton	Refrigeration/CFC	1-93-08-3162			0.306				
Crane, 60 Ton	Refrigeration/CFC	1-93-08-3163			0.035				
Floating Machine Shop	Refrigeration/CFC	1-93-08-3164			0.111	4			
Refrigeration Equipment	Man Increde	1.94-08-5-62 TBO			595	0.4			
Leundry Unite	Leundry Weter Reuse Sys	T8D				0.420			
Recompression Chamber, Diving	Certification Upgrade	T8D			0.530	0.475		٠	
	TOTAL			26.267	18.408	7.631	7.368		
	P-1 SHOPPING LIST					·		Page	of Pages
DD Form 2454, Jul 88	1		•			UNCLASSIFIED	SIFIED	i	1
2	ITEM NO 165	PAGE NO	9	of 54				EXHIB	EXHIBIT P-40

S CONTROL SYMBOL PICARI 1092 RIATION BUDGET ACTIVITY Procurement: Army 3 Support Equipment Craft, Mechanized 8 ton Craft, Mechanized 8 ton Mechine Shop Briggs, 100 Ton Book Cargo O' SEN Equipment Upgrade O' SEN Equipment Upgrade Craft, Utility 2000 Barro Craft, Utility 2000 Craft Utility 1800 Support Vessel 199 6-189 6-190 6-190 6-190	FY 94  FY 94  FY 94  14.7  1.82-08-3123 1.89-08-3127 1.89-08-3127 1.89-08-3127 1.89-08-3127 1.90-08-31307 1.91-08-3307 1.92-08-313129 1.92-08-313129 1.92-08-313129 1.92-08-313129 1.92-08-313129 1.92-08-313129 1.92-08-3131	FY 96	FICATI FY 96 1.200	S H E EM NON 3.9 3.9 1.436 1.355 1.355 1.355 0.168	FY 98 FY 98  FY 98	N OF IN-SVC EQUIPMENT Summary FY 99 FY 92 0.403 0.596	MENT (OPA	(MA4602) FY 01
UDGET ACTIVITY THE Army 3  UIS)  NS)  ITEM INITIAL And And And And And And And And And And	FY 94  FY 94  14.7  14.7  18.2-08-310.3  1-89-08-312.3  1-89-08-312.3  1-89-08-312.3  1-89-08-313.3  1-91-08-330.7  1-92-08-313.9  1-92-08-313.9  1-92-08-313.9		FY 96 FY 96 1.200	S H E 3.9 7 97 7 97 1.36 1.36 1.35 1.35 1.35 0.168	ELATURE DIFICATION C Inst FY 98 0.231	DF IN-SVC EQU tellation Summ FY 99 0.403 0.920 2.000 0.596	DATE February  Bry  FY 00	-3) -3) FY 01
Tuipment  NS)  ITEM  Inized 8 ton  Inized 8		<del>   </del>	342 342	1.020 0.168 0.268 1.020 0.168	EV 98 FY 98 O.231 0.231	5F IN-SVC EQU tallation Summ FY 99 0.403 0.920 2.000 0.596	IBTY FY 00	3) FY 01
				97 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	FY 98 FY 98 0.231 3.000	FY 99  FY 97  0.403  0.596  0.596	rary FY 00 F	-3) FY 01
000		-1		1 1 2 2 4 6 7 6 9 7 7	231 88 88	FY 99  FY 97  0.403  0.596  0.596	00	FY 01
00 00 00 00 00 00 00 00 00 00 00 00 00		1 1 -1	1   121210	1 1 2 2 4 6 6 6 6 7			}	:
00 00 00 00 00 00 00 00 00 00 00 00 00		2:11	4.5 1.200 0.342	3.9 FY 955 1.302 0.288 1.355 1.020 0.168	6.231 0.231 3.000	6.403 0.403 0.920 0.596		
00		11.7	1.200 0.342	3.9 1.436 1.302 0.288 1.355 1.020 0.168	. 67.33 3.000	6.403 0.403 0.920 2.000 0.596		
00 00			FY 94 1.200 0.342	1,436 1,436 0,288 1,355 1,020 0,168	FY 96 0.231 3.000	6.403 0.403 0.920 2.000 0.596	•	
09 99			0.342	1,436 1,302 0,288 1,355 1,020 0,168	3.000	0.403 0.920 2.000 0.596		
09			0.342	1,436 1,302 0,288 1,355 1,020 0,168	3.000	0.920 2.000 0.596	•	
eupply Cargo 60 Upgrade 1 Sys, Elec 100			0.342	1.302 0.288 1.355 1.020 0.168	3.000	0.920 2.000 0.596	•	
00			0.342	1,355 1,355 1,020 0,168	3.000	0.920 2.000 0.596	•	
00	<u> </u>		0.342	1.355 1.020 0.168 0.240	3.000	0.920 2.000 0.596		
00			0.342	1.020 0.168 0.240	3.000	2.000 0.596 0.596		,
	1-91 - 08-3307 1-91-08-3307 1-92-08-3108 1-92-08-3155 1-92-08-3131		0.342	1.020 0.168 0.240		0.00		٠
	1-91-08-3307 1-92-08-3108 1-92-08-3155 1-92-08-3129		0.342	1.020 0.168 0.240				
	1-92-08-3108 1-92-08-3155 1-92-08-3129			1.020 0.168 0.240				
offility 1600	1-92-08-3155			0.168				
Jellity 1600	1.92-08-3129			0.240				
	1.92,08.3131			1:4:3				
				0.210			•	
	1-92-08-3145			0.210				
	1-92-07-1000		0.314	0.297				
	1-92-07-1001		0.499	104.0				
	1-92-07-1002		1.53.1	0.379				
	1-92-07-1008		0.225					
	1-92-07-1017		6.113	0.458				
FSC-38	1-92-07-1018		0.289					
A-8.2	1-92-07-1019		0.271	0.378				
t, Utility 2000	1.93.08-3156			0.945				
	1-93-08-3157			0.300				
Landing Craft Utility 1600	00-00-00-1 00-00-00-1			0.156				
Tug, 128	1-93-08-3160			0.391				
	1-93-08-3161			0.330				
10 Ten	1-93-08-3162			0.391				
	1-93-08-3163			0.040				
	1.93-08-3164			0.129	017.0			
=	1-94-08-5-82 Ten				2			
Modium Girder Bridge Mus Upgrade					0.101			
				0.315	0.425		•	
Recompression Chamber, Diving Certification Opposite Configuration Conditions Updated	1.89		0.020					
TOTAL			14.670	11.672	4.467	3.920		
		P-1	P-1 SHOPPING LIST	ST			Page	of Pages
DD Form 2454, Jul 88					ONCITY	UNCLASSIFIED		
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REPORTS CONTROL SYMBOL					<b>.</b>	UNCLASSIFIED					
DD-COMP(AR) 1092					NDIVIDUAL	INDIVIDUAL MODIFICATION	TION			DATE Feb	DATE February 1995
MODIFICATION TITLE:	LCM-8 Mod 1 S	LCM-8 Mod 1 Service Life Extension MCF 1-82-08-3107	C# 1-82-08-310								
MODELS OF SYSTEMS AFFECTED:	Lending Creft, M	Lending Creft, Mechanized, 8 ton (LCM:8)	6								
DESCRPTION/JUSTFICATION:  Modification of 77 LCM-8s to extend service life 20 years. The major portion of the program involves replacement of the 6-71 Detroit Dissel engine with 12V-71 engine. The 6-71 engine is unsupportable/obsolets. Repair parts are no longer available. This modification is required to be in compliance with U. S. Coast Guard requirements.	extend service listing. This mod	fe 20 years. The iffication is require	major portio id to be in co	n of the progrer impliance with (	n involves replaci J. S. Coast Guan	iment of the 6-71 I requirements.	Detroit Diesel engir	e with 12V-71 en	, ngine. The 6-71 en:	gine le unsupportet	ile/absolate.
DEVELOPMENT STATUS/MAJON DEVELOPMENT MILESTONES:	ENT MILESTONES:										. :
The first prototype was completed in FY 96 with the second completion in FY 90. Application schedule is "stretched out" because installation of modification kits must be done in conjunction with LCM-8 cyclic drydocking. This schedule is based on unit mission operations, readiness, and regulatory watercraft maintenence schedules.	leted in FY 86 wi based on unit mi	th the second cor seion operations,	npletion in F readiness, ac	Y 90. Applicati nd regulatory w	on echedule is "a stercraft mainten	tretched out" bec ince schedules.	euse installation of (	modification kits n	nust be done in cor	junction with LCM	-8 cyclic
FMANCIAL PLAN (\$ in mBons)	ž Š	FV 85	, , , , , , , , , , , , , , , , , , ,	7 7 98 *	FY 87	- F	FY 89	67 VA	FY 01	TO COMPLETE QN 6	TOTAL Qn 6
NDTAE											
PROCUREMENT Re Quentity Restallation (Cite Installation (Cite Equipment	"	1.64									11.64
Equipment (Norrecurring) Engineering Change Orders Date Training Equipment		9.04							·		0.04
Support Ediptement Interface Support Investigation Total Cent Investigation Unit Cent (non-edd)		16.40 0.38									16.40
Tatel Procurement Cost		29.10									29.10
METHOD OF MPLEMENTATION:	Contractor					ADMINIST	ADMINISTRATIVE LEADTIME:	un	PRODUCTION	PRODUCTION LEADTIME:	zs
CONTRACT DATES:	č	FV 85:		FY 96:		FY 97:					
DELIVERY DATES:	Σ.	FV 95:		FY 96:		7					
INSTALLATION SCHEDULE:	Σİ	FY 95	⊕l	-1	13 13 13	#I	2 FY 87	<b>-</b> 1	FY 98	2]	10
MPUT	89	е	ю.								"
OUTPUT	6	4	•	•						-	n
		P.4	P.1 SHOPPING LIST	181					UNCLASSIFED	MDIVIDUAL MODIFK EXHBIT P-3a	MDNVIDUAL MODIFICATION EXHBIT P-36
	H	ITEM NO 165			PAGE 8	of 54				Page af	Pages
										•	

				UNCLASSIFIED						
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092		-	INDIVIDUAL	L MODIFICATION	CATIO	2			DATE Fet	DATE February 1995
MODFICATION TITLE:	LCM:8 Equipment Upgrade									
MODELS OF SYSTEMS AFFECTED:	Lending Creft, Mechanized, 8 ton (LCM-8), Mod 1									
DESCRIPTION/JUSTIFICATION: This upgrade will correct safeticompass, enhancing the oper	PTON/JUSTFICATION: This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. The upgrade will include installation of an escape hatch in the head of the craft, provide a new compass, enhancing the operational capabilities, and an improved bilge ballast system.	ne user commi st system.	unity and combe	rt developer. T	he upgrade	will include	instellation of en	escape hatch in th	e head of the craft,	provide a new
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	ENT MILESTONES: PLANNED	WED.	ACTUAL							
Material Change approved	10/0/7H 10/05 30/05	Ξ 80 S								
Production Contact Award First Production Hardware Delivery	20,05	: \$ \$ \$	Executi 675K C	on is contingent up MA being provided	on receipt of 6 by the Army I	240K of OMA for Reserve.	r prototype work. Fu	ide being eought from U	Execution is contingent upon receipt of \$240K of OMA for prototype work. Funds being sought from USAR and DCSOPS (ASMP). 875K OMA being provided by the Army Reserve.	÷
First Modification Kit Applied Lest Modification Kit Applied FINANCIAL PLAN (8 in millions)		<b>8</b>	FV 97	<b>5</b> 4		F7 98	\$ £	FY 01	TO COMPLETE	TOTAL
·	40 + 40 + 40	•	• 40	À0	-	÷	÷	<b>+</b> ≥	<b>-</b> &	At O
RDTRE									•	
PROCUREMENT										
Installation (the Installation (the		12 0.35	21 0.61	21	0.61	22 0.63				76 2.19
Equipment Equipment (Nonrecurring) Engineering Change Orders						•				
Deta Training Equipment Support Equipment										
Interim Contractor Support Installation Total Cost Installation Unit Cost (non-add)		0.23	0.40		0.40	0.42				1.46
Other Total Procurement Cost	Coet	0.58	1.01		1.01	1.06				3.65
METHOD OF IMPLEMENTATION:	Contractor Various boations in conjunction with cyclic maintenance achedules.	echedulee.		ADMINISTRA	ADMINISTRATIVE LEADTIME:	ij	•	PRODUCTION LEADTIME:	EADTIME:	Ф
CONTRACT DATES:	FY 95:	FY 96:	Jen 96	Ž.	FY 97: Ja	Jen 97				
IXLIVERY DATES:	FY 95;	FY 96:	Jul 96	Ā	FY 97: Ju	Jul 97				
WITALLATION SCHEDULE:	1 2 57 95 3 4	-1	15 15 15 15 15 15 15 15 15 15 15 15 15 1	<b>€1</b>	-1	FY 87	<b>+</b> 1	12 12 13	일 *1	Total
TUMM				•	•	•	KD KD	w w	ស	34 78
OUTPUT					•	<b>-</b>	ur.	so.	เก	39 76
	P-1 SHOPPING LIST	NG LIST						Carried Control	AUDIVIDIA	MDIVIDUAL MODIFICATION
D 1240	TEM NO 165	•	PAGE 9	5	54			UNCLASSFIED	Pega	of Papes
										ı

The control of the co	74170								
The box plats of the Rossing Machine Sino by upgrafing obsolete and unsupportable equipment. Service lift will be extended by twomby years. This will allow the FMS to provide crucial bittermediate multinaneous agriculture.  Annual Machine Sino by upgrafing obsolete and unsupportable equipment. Service lift will be extended by twomby years. This will allow the FMS to provide crucial bittermediate multinaneous provides or cutient to the FMS to provide crucial bittermediate multinaneous country. This will allow the FMS to be possible to the fMS to be possible to the fMS to provide crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate multinaneous crucial and provide crucial and provide crucial bittermediate multinaneous crucial and provide crucial bittermediate and provide crucial bittermediate and provide crucial bittermediate and provide crucial and provide crucial bittermediate and provide crucial and pro	REPORTS CONTROL SYMBOL DO COMP(AR) 1092		INDI		ATION			DATE Febr	uery 1995
and the clink of the Finds of the Charles Shook by Logarding obtained as and consulpantable angignment. Service life will be recorded by twenty years. This will allow the FMS to provide crucial intermediate maintenance of the Ammy's finant of westvereit. An improved, state-of-the-ext 10 ton creas will be installed. This will achieve the FMS to provide crucial intermediate maintenance. The Ammy's finant of westvereit. An improved, state-of-the-ext 10 ton creas will be installed. This will achieve the FMS to provide crucial intermediate maintenance. The Ammy's finant of the Ammy's finant of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. Service is a support current modification of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. The FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the FMS to provide crucial intermediate maintenance. The Ammy's finant of the Ammy's finant of the Ammy's finance of the Ammy's finant of the Ammy's finant of the Ammy's finant of the Ammy's finance of the Ammy's finant of the Ammy's finant of the Ammy's finance of the Ammy's finant of the Ammy's finance	MODIFICATION TITLE:	FMS Modernization MC# 1-89-08-3123							
pend life of the Fouring Machine Stop by upgrafing absolutes and unsupportable acquipment. Service life will be actualed for the Machine Stop by upgrafing absolute and unsupportable acquipment. Service life was reviewed by the Transportation School to determine if the FMS is the best calculation of the Machine Stop by the Transportation School to determine if the FMS is the best calculation of the FMS in the FMS in the FMS in the FMS in the best calculation of the FMS in the FM	MODELS OF SYSTEMS AFFECTED:	Floating Machine Shop (FMS)							
Company   Comp	DESCRIPTION/JUSTIFICATION: This modification is required to provide an intermediate (GS) n	extend the useful life of the Floating saintenance support of the Army's fle	Machine Shop by upgrading of a of watercraft. An improved	beclete and unsupportable 1, state-of-the-art 10 ton or	equipment. Service li ene will be installed.	fe will be extended This will enable the	d by twenty years. FMS to provide ci	This will allow the rucial intermediate	e FMS to maintenance
1000   1000	SUPPORT to the Army's fleet of DEVELOPMENT STATUS/MAJOR DEVELOPME	watercraft. NT MILESTONES:	PLANNED					is the EMS is the	cointro e
Contraction from the contraction above   Contraction of the FMS. This decision will also affect the modification affect on the Carp Deck Barge.   Contraction of the FMS. This decision will also affect the modification of the Carp Deck Barge.   Contraction of the FMS. This decision will also affect the modification of the Carp Deck Barge.   Contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. This is a contraction of the FMS. The Contraction of the FMS. The Contraction of the Carbo	MC Intrinted				MS were reviewed by 1 Bintenance. Transport	he Iransportation stion School decisi	school to determition was to continu	e to support currer	nt modification
Contraction   Contraction	PR/Production Decision Prototype completed				ion will also affect the	modification affort	ts on the Cargo De	ck Barge.	
2 1.10  2 1.10  2 1.10  2 1.10  1.44  Free contaction (low contraction) and contract (LADTMC) and contract (LA	Requirements Review (Combat Develop Production Contract Award First Production Hardware Dafwary First Kit Applied Lest Kit Applied	r - Transportation School)				·			
State   Stat	FMANCIAL PLAN (6 in millions)	FY FY 85	FY 96 Qty \$ Qty	<b>*</b>				TO COMPLETE ON 6	
The beaution of the control of the	RDTAE								
144   144	PROCUREMENT Kit Quently hes will alon Kits hes will alon Kits (Norvecuring) Equipment (Norvecuring)		1.10						
144   144	Engineering Change Orders Date Training Equipment Support Engineent								
Total Procuement Coat   Total Procuement Coat	Interim Contractor Support Institution Total Cost Institution Unit Cost (non-add) Other		1,72						1.44
FY 95: Feb 55 FY 96: FY 97: FY 97: FY 97: FY 97: FY 97: FY 97: FY 97: FY 97: FY 97: FY 97: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 97: FY 97: FY 97: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 96: FY 97: FY			354						7:24
FY 95: Feb 95 FY 96: FY 97: FY 97: FY 97: FY 97: FY 97: FY 95: Nov 95 FY 96: FY 97: FY	METHOD OF IMPLEMENTATION:	Contractor (Two contractors, one east coss),	one west coest)	ADMINI	STRATIVE LEADTIME:	LC.	PRODUCTION	LEADTIME:	6
FY 95: Nov 95 FY 96: FY 96: FY 99: TE TY 96 TO THE NOV 95 TO TE TY 96 TO THE NOV 95 TO TE TY 96 TO THE NOV 95 TO T	CONTRACT DATES:		FY 96:	FY 97:					
PY 1 2 1 2 2 3 4 1 2 797	DELIVERY DATES:		FY 96:	FY 97;					
T  P.1 SHOPPING LIST  PAGE 10 OF 54	INSTALLATION SCHEDULE:	1 2 EY 95	<b>~</b> I	◆I	FY 97				Total
P.1 SHOPPING LIST  PAGE 10 OF 54  TREM NO 165	MPUT			7					8
P.1 SHOPPING LIST PAGE 10 OF 54	OUTPUT			8					2
PAGE 10 OF 54		P.1 SH	OPPING LIST			5	NCLASSIFIED	MENDIAL N	AODIFICATION IT P-36
		ITEM NO 165	PAGE	10 04				Pege	Pages

				UNCL	UNCLASSIFIED					
REPORTS CONTROL SYMBOL			-	INDIVIDUAL	MODIFICATION	NOI			DATE February 1995	Jary 1995
MODIFICATION TITLE:	Crene Barge Modernization MC# 1-89-08-3127	1.89-08-3127		1						
MODELS OF SYSTEMS AFFECTED:	Crene Barge, 100 ton									
DESCRIPTION/JUSTIFICATION: This modification is required to improve safety of personnel and eliminate human factor engineering shortcomings, including provisions for adequate accommodations for a full crew, installation of a general alarm This modification is required to improve another and improved operational effectiveness. Completion of this modification will also result in the standardization of full designs which will improve the supply support of these	improve safety of personnerse equipment, and improved	ol and eliminate h	uman factor engi tiveness. Comp	neering shortcomin letion of this modifi	gs, including provi cation will also res	sions for adequate	eccommodation	ı for a full craw, in Igna which will imp	stallation of a gene rove the supply su	al alarm sport of these
BESSTE, DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	ENT MILESTONES:	₹.	PLANNED	ACTUAL Program v	vas delaved due to	tack of OMA fun	ding to eupport er	vaineering and prot	Program was delayed due to lack of OMA funding to support engineering and prototype development and testing.	and testing
Meterial Change Initiated		<u>0</u> ~ <del>4</del>	OTR/YR 20/89 40/92	20/89 OMA func 40/92	OMA funding has now been provided by TUSA.	provided by TUS				
Prototype Completed TDP Accepted		~ 6	3/95 3/95							
Production Contract Award First Production Hardware Delivered First Kit Applied Lest Kit Applied		4-04	40/95 10/98 20/98 40/97							
FINANCIAL PLAN (8 in millions)	40 + A0	FY 85	FY 96 Ory 6	FY 87	04 F7 %0	FY 99 Qty 6	FY 00	PY 01	TO COMPLETE ON 6	TOTAL Oty 6
HDIAE										
									•	
PROCUREMENT Kit Quantity Installation Kits		9 2.10								9 2.10
Installeton Kite (Norrecuring)										
Equipment (Norrecuring)										
Engineering Change Orders										
Dete Training Equipment										
Bupport Equipment							,			
Installation Total Cost		1.30								1.30
Installation Unit Cost (non-add)		0.14								0.14
Total Procurement Cost	Cost	3.40								3.40
METHOD OF IMPLEMENTATION:	Confractor				ADMINISTRA	ADMINISTRATIVE LEADTIME:	01	PRODUCTIO	PRODUCTION LEADTIME:	ų.
CONTRACT DATES:	FY 95: Aug 95	95	FY 96:		FY 97:					
DELIVERY DATES:	FY 95; Dec 95	<b>56</b>	FY 96:		FY 97:					
MSTALLATION SCHEDULE:	E]	ج و و		12 14 13 13	<b>-</b> 1	FY 82	<b>-</b> 1	13	41 0]	Totel
HNPUT				2	7	<b>-</b>				ø.
OUTPUT					8	2	-			6
		P-1 SHOPPING LIST	LIST						MDIVIDUAL A	MDIVIDUAL MODIFICATION EXHIBIT P.3.
	TTEM NO 165			PAGE 11	of 54				Page of	Pages

DO-COMP(AR) 1092		INDIV	INDIVIDUAL MODIFICATION	ATION			DATE February 1995	1995 yes
MODIFICATION TITLE:	Cargo Barge Modernization MC# 1-89-08-3128							
MODELS OF SYSTEMS AFFECTED:	Berge, Cergo Deck							
DESCRIPTION/JUSTIFICATION: This modification is required t	PTOM/JUSTFICATION: This modification is required the harde configuration to augmost the intermediate (ISS) maintenance mission of the Election Machine Show (EMS)—it will amode new storage racks & securing devices a	em (SS) etalbermetri ett	intenence mission of the	Floating Machine Sho	EMS) # (FMS) a	sperote were abyon	racks & securing d	4 4 6 5 7 6
monorell, and replace obsolet	monorall, and replace obsolete doors and hatches with watertight doors and hatches i	d hatches in compliance	in compliance with SOLAS, U. S. Coast Guard and other regulatory requirements.	t Guard and other regu	latory requirement	ts.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		PLANNED ACTUAL	Requirements for this barge are dependent on requirements for the FMS.	inge are dependent on	requirements for t	the FMS. The Trer	The Transportation School has reviewed	nas reviewed
Meterial Change Initiated	06		these requirements to determine if the FMS is the best solution to DS/GS Watercraft maintenance. Transportation	etermine if the FMS is	the best solution	to DS/GS Waterch	oft maintenance. To	ransportation
IPR/Production Decision  Recuirements Revises (Combat Developer - Transmittation School)		40/94 40/94	School decision was to continue to support current modification of the FMS and the Cargo Barge.	continue to support or	urent modification	of the FMS and to	se Cargo Barge.	
Prototype Completed								
TOP Accepted Production Contract Accept Section Industries		20/95						
First Production Herdware Delivered	•	30/95						
Flut Kit Applied	07	40/95						
FRANCIAL PLAN (6 in milens)	2 2	FY 96		<b>2</b>	8	7 0	COMPL	TOTAL
	0 + 40 + 40	40 4 40	+ A0 .+	÷	• •	• •	• •	<b>•</b>
RDTAE							•	
PROCUREMENT ICH Quantity								
Installation Kits	2 0.35							2 0.35
Installeton Kits (Nonsecuring)								
Equipment (Nonsecuring)								
Engineering Change Orders								
Training Equipment								
Support Equipment								
Installation Total Cost	0.29							0.29
Other								
Total Procurement Cost	Coet							0.64
METHOD OF MPLEMENTATION:	Convect		ADMINIS	ADMINISTRATIVE LEADTIME:	•	PRODUCTION LEADTIME:		m
CONTRACT DATES:	FY 95: Mar 95	F7 <b>%</b>	FV 97:					
DELIVERY DATES:	FY 95: Jun 95	FY 96:	FY 97;					
INSTALLATION SCHEDULE:	PY 1 2 FY 95 3	4 1 3 EV 96	ଟୀ ଫା ଫା	2 FY 97 3	<b>#</b> 1	FY 98	의	Total
meut.		8						2
OUTPUT		~						7
	P-1 SHOPPING LIST	TSI			5	UNCLASSIFIED	MDIVIDUAL MODIFICATION EXHBIT P-36	DOFFICATION P-3e
			(				(	
	ITEM NO 165	PAGE	of 54				10	Pages

										UNCLASSIFIED	1FIED									-			
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092								INDI	INDIVIDUAL		DOIF	MODIFICATION	NO							DA1	DATE February 1995	ry 1995	
MODIFICATION TITLE:	Logistic Sk	upport Ve	LESV)	Logistic Support Vessel (LSV) Modernization MC# 1-90-08-3130	ion MCf	1.90.08	3130																
MODELS OF SYSTEMS AFFECTED:	Logistic Support Vessel	upport Ve	Ī																				
DESCRIPTION/JUSTRICATION: DESCRIPTION/JUSTRICATION: This modification corrects technical and operational deficiencies. It eliminates environmental and eafety deficiencies. This program will upgrade and modernize systems and components of the LSV, eliminate safety hazards to vessel and crew, place vessels in full compliance with regulatory requirements, replace non supportable components and enhance mission performence.	hnical and c lace vesselt	operatio e in full	nal defic complia	iencies. nce with	k elim regulat	inates d tory req	invironm	ental and e. replace	sefety d	eficienci xporteble	les. Thi	s prograf nents an	n will u	pgrade . vce miss	and mod sion peri	emize s omnenc	ystems 9.	and compo	onents o	f the LS'	V, elimin	ato safot	<b>≥</b>
DEVELOPMENT STATURINAJOR DEVELOPMENT MILESTONES:	INT MILESTON	ë				PLANNED OTR/YR	_	ACTUAL OTR/YR	4 5 4						,								
IPR/Production Decision Prototype Completed						20/95				d due to t	ite receipt	Delayed due to late receipt of OMA funding.	g g										
TDP Accepted Production Contract Award	٠					40/95			Herde		picetion h	Leaving our so was receipt of Own harmy. Hardware and application funds will be awarded simultaneously.	averded.	eimultene	ovely.								
Fest Production Hardware Defivary Fest Modification Kit Applied Lest Modification Kit Applied						20/90			The ex funde	tended ept to coincide	plication et with fund	hadule is d	Le to mist periode w	alon and o	per etional antly incre	xonsider eti se comple	one, unit : don time	The attended application achebula is due to mission and operational considerations, unit readiness and cyclic dydocking requirements. Fragmentation of funds to coincide with funded definery periods will significantly increase completion time and increase costs due to unsconomical order quantities.	cyclic dryd coets due b	locking req b uneconor	uiremente. nicel order	Fragmenta quentities.	Ition of
FRIANCIAL PLAN (¢ in millione)	ò	ž	0	74 <b>85</b>	•	, ¥0	<b>8</b>	å			77 <b>98</b>	•	FY <b>99</b>	<b>-</b>	6	8		FY 01	· a	TO COMPLETE Qry 6	ETE •	TOTAL Oty	<b>.</b>
ROTAE																							
PROCUREMENT ICH Quandry Installs don ICHs Installs don ICHs Equipment (Norsecuring) Equipment (Norsecuring) Equipment (Norsecuring)				•	4.58												•					•	4.58
Training Equipment Support Equipment Interior Contractor Support Institution Total Cost Institution Unit Cost (non-add) Others					1.36																		1.36
Total Procurement Cost	Coet				5.9																		ล์ ก่
METHOD OF IMPLEMENTATION:	Contracto	or (Verloud	bcetions	Contractor (Various locations in conjunction with cyclic maintenence)	ion with c	syclic mai	ntenence)				Ā	ADMINIS TRATIVE LEADTIME:	WE LEAD	TIME:		9		PRODU	PRODUCTION LEADTIME:	NDTIME:	€		
CONTRACT DATES:		FY 95:		Oct 95			FY 96:				FY 97:	97:											
DELLVERY DATES:		FY 95:		3ul 96			FY 96:				FY 97:	<b>.</b> 78											
INSTALLATION SCHEDULE:	Σl	-1		13 13	mı	<b>⊄</b> 1	-1	M	<b>8</b>	ei	- •1	<b>~1</b>	FY 93	<b>6</b>	<b>₹</b> 1		<b>-</b> 1	21 28 20 20 20 20 20 20 20 20 20 20 20 20 20		<b>≠</b> 1	임	Total	3i
TUM													-					<b>-</b> ·			•	•	
OUTPUT																-		-		-	-		
				1-4	внорр	P-1 SHOPPING LIST	Ŀ.										TO MA	UNCLASSIFIED		VQW.	2 6	DIFICATION P.3e	ž
		TEN	TEM NO 165					PAGE		13	8	54				-			4		0	Pages	

					(INC) A SSIEIED					
REPORTS CONTROL SYMBOL DD-COMPLAR) 1092		į		INDIVIDUAL	L MODIFICATION	TION			DATE February 1995	995
MODIFICATION TITLE:	LARC 60 Service Life Externeion Program	xtension Program								
MODELS OF SYSTEMS AFFECTED:	Lighter, Amphibiaus, Resupply, Cargo 60 ton	eupply, Cargo 60 ton								
DESCRIPTOMJUSTRICATION:  This SLEP program involves the modification of 22 craft to extend their useful life by 20 years. Maintenance and operational capability improvements for Logistics-Over-tha-Shore (LOTS) operations will be an accomplished. Current speed and mobility will be increased to handle containers without material handling equipment. Capability to operate on unimproved beaches will be enhanced.	nodification of 22 c and mobility will be in	sreft to extend thei koreased. The carg	r useful life by 20 o erea will be incr	years. Maintenary sased to handle co	se and operational or estainers without m	sepablity improvem starial handling equi	onts for Logistics- pment. Cepebility	Over-the-Shore (LO) / to operate on unim	(S) operations will be iproved beaches will be o	nhanced.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	IT MALESTONES:		PLANNED	ACTUAL						· · · · · · · · · · · · · · · · · · ·
Meterlal Change Approved IPR/Production Decision			20/95 20/95	OTRVR						
Production Confect Award First Production Hardware Delivery			10/96							
First Modification fut Applied Lest Modification fit Applied FINANCIAL PLAN (6 in millions)	\$ \$	* * * * * * * * * * * * * * * * * * *	10/8/ 40/01 FY 96 0Y 6	FY 87	74 <b>86</b> 04 40	77 <b>88</b>	94 49 84 49	04 401	TO COMPLETE DIY 6 DIY	TOTAL
RDT&E										
PROCUMEMENT										
KR Quenetry Installation Kits Installation Kits (Nonsocuring)			2 1.44	4 2.88	3.60	5 3.60	3.60			21 15.12
Equipment (Nonrecuring)										
Deta Training Equipment										
Support Equipment Interior Contractor Support Interior Total Cort Intelligion Unit Cort (non-add)				0.92	4:30	2.40	2:40			10.08
Other Test Precuement Cost installation costs have been enrushed as directed.	et 1 es directed.		1.4	3.80	7.96	6.00	9:00			25.20
METHOD OF MPLEMENTATION:	Contract Various locations in conj	Contract Various locations in conjunction with cyclic drydoching/maintenance achadulas.	cking/maintenance ach	edules.	Ā	ADMINISTRATIVE LEADTIME: 3	e 	T	PRODUCTION LEADTIME: 8	
CONTRACT DATES:	FY 95:		£ 86.	Dec 96	FY 83;	Dec 97				
DELIVERY DATES:	<b>.</b>		FY 96:	Aug 90	FV 87:	Aug 97				
INSTALLATION SCHEDULE:	-1 <b>E</b> İ	FY 85	<b>~</b> I	74 <u>86</u> 13	<b>=</b> 1	2 FY 87	e-i	FY 98	입	Total
MPUT						-			1 15	23
OUTPUT						-		-	10	77
		P.18	P-1 SHOPPING LIST						INDIVIDUAL MODIFICATION	TION
(	TEM NO 165	165		PAGE 14	of 54			UNCLASSIFED	Page of Pages	•

2.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00					ONO	UNCLASSIFIED				
TOW TILE:  100 Tug  The upgrade AFFECTED:  100 Tug  The upgrade will eight floate by the present of the vessel. It will improve speciations center will be improved to enhance manuverability. This modification includes a familiar content will be improved to enhance manuverability. This modification includes a familiar content will be improved to enhance manuverability. This modification includes a familiar content Award  Asterial Charles Award  Asterial Charles Award  Asterial Charles Charles Award  Asterial Charles Charles Award  Asterial Charles Charles Award  Asterial Charles Charl	REPORTS CONTROL SYMBOL DO-COMPIAR) 1092				INDIVIDUAL	MODIFICAT	TION		DAT	DATE February 1995
The suggested will inform the mission capability of the vessel. It will improve present or announce manuverability. This modification includes the upgrade will be improved to enhance manuverability. This modification includes the upgrade will be improved to enhance manuverability. This modification includes the upgrade will be improved to enhance manuverability. This modification includes the upgrade will be improved to enhance manuverability. This modification includes the upgrade will include the upgrade the upgrade of the	MODIFICATION TITLE:	Large Tug Equipmen	nt Upgrade							
This upgrade will elgnificantly improve the mission capability of the vessel. It will improve pperations center will be improved to enthance manuversbility. This modification includes a memory relation of the control	MODELS OF SYSTEMS AFFECTED:	100' Tug								
PRENT STATUSIAALON DEVELOPMENT MALESTONES:  PRINTS  Attaula Charge Approved Touritys I and Charge Approved Touritys and Charge Approved Touritys and Charge Approved Touritys I and Charge Approved Touritys I and Charge Approved Touritys I and Charge Approved Touritys I and Charge Approved Tourity I and Cha	DESCRIPTION/JUSTIFICATION: This uncorade will significantly	Improve the mission	n capability of the w	voice: It will improve	a the main engine no	wer plent unggede	latementing and on-to-	rowalifies famous constitutions		n mess areas Th
Principle   Prin	operations center will be impr	roved to enhance m	anuverability. This r	nodification includes	s update of community	sations, electronic	s, and navigational equip	ment		
Comparison	DEVELOPMENT STATUS/MAJOR DEVELOPM	TENT MILESTONES:		PLANNED	ACTUAL					
100   100	Meterial Change Approved			40/94 40/94	40/94					
Control   Cont	Production Contract Award First Production Hardware Delivered	•		10/96						
The control of the	First Kit Applied Lest Kit Applied			40/96 40/99						
Part   Part	FINANCIAL PLAN (¢ in millions)		<b>₹</b>				# #	FY 00 \$ 017	•	ETE TOTAL
1	HDTAE									
Intercenting	PROCUREMENT									
Fig.   Paragraph	ICh Quendity Installation Kits									7 10.50
Properties   Pro	Installation Kits (Norrecuring) Equipment									
Total Procussion   1,00   1,	Equipment (Norrecurring) Engineering Change Orders									
1.00   1.00	Training Equipment Summer Feuinment									
Total Focus Intermedial	Interim Contractor Support Installation Total Cost			3.00	2.00	2.00				7.00
Total Procurement Cost   7:50   5:0	Installation Unit Cost (non-edd)			1.00	1.00	8.				
FV 95:   FV 96:   FV 96:   FV 97:   Jun 90     FV 95:   FV 96:   FV 97:   Jun 90     FV 95:   FV 96:   FV 96:   FV 97:   Jun 90     FV 96:   FV 96:   FV 96:   FV 96:   FV 96:   FV 97:   Jun 90     FV 96:   FV 96:   FV 96:   FV 96:   FV 96:   FV 96:   FV 97:   Jun 90     FV 96:   FV 96:   FV 96:   FV 96:   FV 96:   FV 96:   FV 97:   Jun 90     FV 96:   FV 96:   FV 97:   Jun 90   FV 97:		Cost		7.50	2.00	2.00				17.50
FY 95: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 95: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 95: FY 96: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 95: FY 96: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 95: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 95: FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY 96: FY 96: FY 97: Jun 96  FY	METHOD OF IMPLEMENTATION:	Contractor				ADMI	INISTRATIVE LEADTIME: 2		PRODUCTION LEA	IDTIME: 5
FY 55: FY 96: FY 96: FY 96: FY 97: Jun 96  FY 1 2 3 4 1 2 7 3 4 1 2 7 3 4 1 2 7 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONTRACT DATES:	E	ii ii	FY 96:		7	Dec 98			
PY 1 2 3 4 1 2 796 3 4 1 2 797 3 4 1 2 798 3 4 1 2 798 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DELIVERY DATES:	74	ě	FY 96:		FY 97:	Jun 96			
P-1 SHOPPING LIST  P-1 SHOPPING LIST  ONCLASSFED  ONCLASSFED	INSTALLATION SCHEDULE:		7		¥	<b>*</b>	FY 97	NI	<b>⇔</b> i	IC Total
P-1 SHOPPING LIST  TEM NO 165  PAGE 15 OF 54	TOM					2		-	-	. 1 .
P-1 SHOPPING LIST PAGE 15 OF 54	OUTPUT						-	-	-	2 1
PAGE 15 OF 54 UNCLASSIFED EXHIBIT			P-1	BHOPPING LIST						MDIVIDUAL MODIFICATION
		ITEM	NO 165					OMCLASSIFED		Pe of Peges

						UNCLASSIFIED	FÆD							
REPORTS CONTROL SYMBOL DD-COMP(AR) 1092					INDIVIDU	AL	MODIFICATION	TION				OA	DATE February 1995	1995
MODEICATION TITLE:	eine Communicatio	Maine Communication, Electronic, and Nevigation Equipment Upgrade	vigation Equipm	ent Upgrade										
MODELS OF SYSTEMS AFFECTED: L4	Landing Craft, Utility ( Hi Speed Patrol Boat	Lending Celt, Utility (LCU) 2000, Logistic Support Vessel (LSV), 128* Hi Speed Patol Bost	Support Vessel		ĵ.									
DESCRIPTION/JUSTFICATION: This upgrade will allow this vessels to continue to meet federal maritime and sefety standards. It will upgrade communications, electronics, and navigational equipment maintaining capatibility with other services and vessels in the commercial shipping industry.	to continue to industry.	meet federal m	aritime and o	afety stand	erde. It will up	grade con	ımunicetion	s, electronics, and	navigational	equipment	maintaining	capatibility w	/ith other se	vices and
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	LESTONES:		PLANN		ACTUAL									
Meterial Charge Approved FRIP oduction Decision Production Content Award First Production Hardware Delivered			018/78 20/96 20/96 10/97 30/97	=		Ition le conti OMA beine	gent upon recy provided by th	Essaution is contingent upon receipt of \$115K of OMA for prototype work. Funds being sought from USAR and DCSOPS (ASMP). 648K OMA being provided by the Anny Reserve.	r prototype work	. Funds being	sought from U	SAR and DCSOP!	S (ASMP).	
Flet Kit Appled Lest Kit Appled FRANCAL PLAN (9 in millions)	È	2	30/97 10/00	* *	ž.		<b>8</b>	<b>8</b>	ž 8		2	TO COMPLETE		TOTAL
	• Au	Å.	<b>*</b> 0	•	ž o	ě		•	ě	•	•	¥0		• •
ROTAE													•	
PROCUMENT I'm Outside												Te.		
Installation Kiss (Nonrecurring)					.0	0.88	3 0.05							54 0.93
Equipment (Nonrecuring) Engineering Change Orders					·									
Date Traking Equipment Bupport Equipment														
Interfer Contractor Support Installation Total Cost Installation Unit Cost (non-add)					66	0.00	0.03							0.63
Total Procurement Cost					=	1.48	0.08							1.50
METHOD OF MIPLEMENTATION:	Contractor on site at vessel locations.	sessi locations.					A	ADMINISTRATIVE LEADTINE: 2	ن: ~			PRODUCTION LEADTIME: 4	EADTIME: 4	
CONTRACT DATES:	FY 95:			₹ 86			FY 87:	Dec 97						
DELIVERY DATES:	FY 95:			FY 96:			FY 87:	May 84						
INSTALLATION SCHEDULE:	 <b>E</b> I	FY 95	<b>⊄</b> (	<b>~</b> 1	¥	<b>⊄</b> i	-1	FY 97	<b>⊕</b> !		13 13	<b></b> ≢1	21	Total
INFUT	ı			ı	ı		•		so so	ur.	so.	S.	54	¥
OUTPUT									₩.	un	un	NO.	53	Z.
		<b>a</b>	P-1 SHOPPING LIST	TSIT						100	Children Control	IONI	MDIVIDUAL MODIFICATION	ICATION
	TEM NO 165	165			PAGE 1	16 or	54				2		Page of	Pages

				Mn	UNCLASSIFIED					
REPORTS CONTROL SYMBOL DD.COMP(AR) 1092				INDIVIDUAL	MODIFICATION	10 N			DATE February 1995	uary 1995
MODIFICATION TITLE:	DISE Circuit Bresker	DISE Circuit Breaker Upgrade MC# 1:91:08 3307	3307							
MODELS OF SYSTEMS AFFECTED:	Dietribution (Numine	Dietribution (Numination System Electric (DISE)	<b>.</b>							
DESCRIPTION/JUSTIFICATION:	This program chang Hardware febricatio	jes the circuit breeker ty; in and application ere to l	This program charges the crouit breaker type from thermal to hydraulic Hardware febrication and application are to be done concurrently by Fed	c. der al Prison Industries.						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	T MILESTONES:		PLANNED	ACTUAL						
IPR/Production Decision			20/93	20/93						
Treduction Contract Award  1st Production Hardware Delivery	•		40,04 18,00	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
Lest Modification Kit Applied Entancial Plant & Lest Modification Kit Applied	ì	¥	10/95 58 YZ	10/95 FY 97	<b>2</b>	2	8	5	TO COMPLETE	TOTAL
	. Ato	* A0	\$ 0	*	• Aio	- Au	•	<b>♣</b>	•	• 40
RDTAE									•	
PROCUMEMENT TO Quently										
Installation Kits Installation Kits (Norrocuring)	1348	0.38								85.0 85.0
Equipment										
Engineering Change Orders										
Units Training Equipment							,			
Support Equipment Interim Contractor Support										
Installation Total Cost Installation Unit Cost (non-edd)	٠.	0.31						. *		0.31
Other										98.0
I Installation unit cost is 6340 per unit.		60:			•					3
METHOD OF IMPLEMENTATION:	Contractor - Fadera	Contractor - Federal Prison Industries (FP))				ADMINISTRATIVE LEADTIME: 7	EADTIME: 7	PRODUCT	PRODUCTION LEADTIME:	9
CONTRACT DATES:	FY 95:	é	FY 96:		FY <b>8</b> 7;					-
DELIVERY DATES:	FY 95:	ė	FY 96:		FY 87;					
WSTALLATION SCHEDULE:	ĔĬ	₩   F   95	<b>~</b> t	% 2 2 8 8 8 8	<b>-</b> 1	FY <b>93</b>	<b>-</b> 1	FY 86	1	Total
INPUT	1348									1348
OUTPUT	674	974								1348
		P.1 St	P.1 SHOPPING LIST				<u> </u>		MOIVIDUAL	INDIVIDUAL MODIFICATION
								UNCLASSIFIED		EXCHIBIT P.34
	ster.	TEM NO 165		PAGE 17	of 54				Pege of	f Pepee

MODIFICATION					*5	UNCLASSIFIED						
CATION TITLE:  8 OF SYSTEMS AFFECTED: PTIONIJUSTFICATION: PTIONIJUSTFICATION: PTIONIJUSTFICATION: PTIONIJUSTFICATION: PR Production Decision Production Contract Award PR Production Hardware Delivery PR Production Kit Applied Let Modification Kit Applied Let Modification Kit Applied Let Modification Kit Applied Let Modification Kit Applied Let Production Hardware Delivery Tet Modification Kit Applied Let Production Long Contracting Studenment Internation Kits Indiana Calesters Support Internation Contraction—add Different Contraction	REPORTS CONTROL SYMBOL DD-COMPIARI 1092				INDIVIDUAL		LON			DATE: Fe	DATE: February 1995	
FIGURIALISTERIAS AFFECTED: PTIONIALISTERICATION: PRICATE STATUS/MAJOR DEVELOPMENT Production Decision Production Contract Award Test Production Hardware Delivery Test Modification Kit Applied Test Modification Kit Applied AL PLAN (8 in millions) Test Modification	MODIFICATION TITLE:		1.92.08.3108									
PTIONIJUSTFICATION:  PREMENT STATUSIMAJOR DEVELOPMENT  PR Production Decision  Yoduction Contract Award  Tet Production Hardware Delivary  Tet Modification Kit Applied  Jal. PLAN (8 in millions)  All PLAN (8 in millions)  All PLAN (8 in millions)  All PLAN (8 in millions)  All PLAN (8 in millions)  All PLAN (9 in millions)  All PLAN (10 in millions)  All PLAN (10 in millions)  All PLAN (10 in millions)  A	MODELS OF SYSTEMS AFFECTED:	LANDING CRAFT, UTILI	TY 2000 (LCU 2000)									
Principle   Prin	DESCRIPTION/JUSTFICATION:	FEDERAL MANDATES R A SUBSTITUTE AGENT V	FEQUIRE A PHASEOUT O	F HALON BY THE END.	OF 1995. CURRENTLY,	THIS VESSEL USES HAL CEMENT OF PIPING, VA	ON AS A FIRE EXTINGUI LVES, NOZZLES, AND S	SING AGENT. Torage Bottles				
10	DEVELOPMENT STATUS/MAJOR DEVELOPME	NT MILESTONES:		PLANNED OTR/YR	ACTUAL						•	
NATURE SCIEDULE:  TY 4 ON THE PAYER  A TANKER IN MINISTRAL COMPLEX CONTINUES  THE PAYER IN THE PAYER  THE PAYER  THE PAYER IN THE PAYER  THE PAYER IN THE PAYER  THE PAYER IN	IPR Production Decision Production Contract Award First Production Hardware Delivery First Modification Kit Applied Lest Modification Kit Applied			20/95 20/95 30/95 40/95 20/97								
Part   Part	FINANCIAL PLAN (8 in millions)	£	£	<b>%</b>	FY 87				FY 01	TO COMPLETE DIV \$	TOTAL Oty \$	_
See   1-16	RDTAE											
102   102   103	PROCUREMENT Kit Quentity herullation Kits herullation Kits feudpment Equipment Equipment Equipment (Nonecuring) Equipment Change Orders Date										<b>36</b>	1.16
FV 95:   Mw 95   FV 96:   FV 97:   FV 97:   FV 97:   FV 97:   FV 97:   FV 97:   FV 96:   FV 97:   FV	og Equipment of Contractor ( sion Total Co	100	1.02 0.03 2.18									1.02 0.03 2.18
FY 95: Mar 95	METHOD OF IMPLEMENTATION:	CONTRACTOR				ADMINISTR	ATIVE LEADTIME	ø	PRODUCTION LEADTIME	LEADTIME	4	
HEDALE: FY 95: FY 96: FY 97: FY 97: 1 2 4 1 2 FY 97: 2 4 1 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	CONTRACT DATES:	74 95:	M er 95	FY 96:		FY <b>8</b> 7;						
PY 1 2 4 1 2 7 95 3 4 1 2 7 97 3 4 2 4 1 2 7 97 3 4 1 2 7 97 3 4 1 2 7 97 3 4 1 2 7 97 97 97 97 97 97 97 97 97 97 97 97 9	DELIVERY DATES:	FY 95:	Jun 95	FY 96:		FY 97:						
2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	MSTALLATION SCHEDULE:		FY 95		¥	<b>-</b> 1	FY 97		FY 98	<b>₽</b>	Total	
P-1 SHOPPING LIST  PAGE OF 54	MPUT				2	, , ,					35	
P.1 SHOPPING LIST	OUTPUT				F	, ,	<b>~</b>				35	
PAGE OF			P-1 SHOPF	ING LIST				,	UNCLASSIFIED	MDIVIDUAL	MDIVIDUAL MODIFICATION EXHIBIT P-34	
		ITEM NO	165		PAGE						of Pages	

			STATE	INICI ASSISTED					
REPORTS CONTROL SYMBOL			NOTE STREET	MODIELCATI	7			DATE: Feb	DATE: Fabruary 1995
DD COMPLANT 1092									
MODIFICATION TITLE:	HALON / CFC MC# 1-92-08-3155								
MODELS OF SYSTEMS AFFECTED:	ROWPU BARGE								
DESCRIPTION/JUSTIFICATION:	FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1896. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISMO AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPMO, VALVES, MOZZLES, AND STORAGE BOTTLES	OUT OF HALON BY THE END G ED, FOLLOWED BY EXTENSIVE	JF 1996, CURRENTLY, THR : REMOVAL, AND REPLACE	IS VESSEL USES HALON A TAENT OF PIPMO, VALVE	IS A FIRE EXTINGUISMA S, MOZZLES, AND STOF	3 AGENT. JAGE BOTTLES			
DEVELOPMENT STATUS/NAJOR DEVELOPMENT MILESTONES:	MILETOWEG:	PLANNED GIRVR	ACTUAL						-
IPR Production Decision Production Construct Award First Production Hardware Delivery First Modification Kit Applied Last Modification Kit Applied		20.05 20.06 40.95 10.96 30.96							
FWANCIAL PLAN (6 to millions)	74 A OA A	FV 26	FV 07	* * * * * * * * * * * * * * * * * * *	*	8 2 4	FY Ö1	TO COMPLETE ON	TOTAL GRY 4
POTAE									
PROCURE MENT EX Guerrity buttallation KHs installation KHs Equipment (Newcouning) Equipment (Newcouning) Equipment (Newcouning)		81.0							6.15
Totals Equipment Eupper Equipment Interior Certaintee Euppert Interior Certaintee Euppert Interior Test Ceet Interior Test Ceet Interior Test Ceet Interior Test Ceet Interior Test Ceet Interior Test Ceet Interior Test Ceet		0.17							0.17
Other Total Precurement Cest		0.32							0 32
METHOD OF IMPLEMENTATION:	CONTRACTOR			ADMINISTRAT	ADMINISTRATIVE LEADTIME	<b>v</b> o	PRODUCTION LEADTIME	I LE ADTIME	ø
COMTRACT DATES:	FY 86: Mer 95	÷		FY 0.7:					
DELIVERY DATES:	FY 96: Aug 95	F 4 90		FV 07:					
INSTALLATION SCHEDULE:	PY FY 96	r: 41	61 50 50 61	<b>-</b> 1	74 60 61	<b>-</b> 1	FY 98	<b>1</b>	101
MPUT			~						е.
001701			-						<b>6</b>
	P.1	P.1 SHOPPING LIST				5	UNCLASSIFIED	INDIVIDUAL N	INDIVIDUAL MODIFICATION EXCHIBIT P.3a
	ITEM NO 165		PAGE 19	of 54				Page of	Pages

					5	UNCLASSIFIED				-	
MODESCATION TITLE:					INDIVIDUAL	MODIFICATION	TION			DATE: Fe	DATE: February 1995
	HALON / CFC MC#	1-82-08-3129									
MODELS OF SYSTEMS AFFECTED:	LANDING CRAFT, UTRITY 1600 (LCU 1600)	TY 1600 (LCU 160	ĺχ								
DESCRIPTION/JUSTIFICATION: FE	EDERAL MANDATES I SUBSTITUTE AGENT	TEQUIRE A PHASEC WILL BE IDENTIFIEI	NT OF HALON BY 5, FOLLOWED BY E	THE END OF	1995. CURRENTLY, EMOVAL, AND REPL	THIS VESSEL USES HA!	FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1995. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPMS, VALVES, NOZZLES, AND STORAGE BOTTLES	NSING AGENT. STORAGE BOTTLES			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTOMES:	LESTONES:		PLANNED QTR/YR	1	ACTUAL OTR/YR						
IPR Production Decision Production Consect Award First Production Hardware Delivery First Modification Kit Applied Lest Modification Kit Applied			20/95 20/95 30/95 40/96								
FINANCIAL PLAN (6 in millions)	• •	FY 85	74 96 40 07		FV 87	56 V7 90	FY 99	64 FV 66	FY 01	TO COMPLETE	TOTAL Ory \$
RDTRE											
PROCUREMENT Kit Queneity Installation Kits Installation Kits Residenten Kits (Norsecuring) Equipment Equipment Equipment (Norsecuring) Engineering Chenge Ordere Date		E.	6.14							•	13 0.14
Training Equipment  Support Equipment Interim Contractor Support Installation Tatal Cost (non-add) Other Total Procurement Cost			0.02								6.24 0.02 0.38
METHOD OF IMPLEMENTATION:	CONTRACTOR					ADMINISTR	ADMINISTRATIVE LEADTIME	vo	PRODUCTIG	PRODUCTION LEADTIME	4
CONTRACT DATES:	FY 95:	Mer 95	<b>L</b>	FY 96:		FY 97:					
DELIVERY DATES:	FY 95:	Jun 95	ű.	FY 96:	,	FY 97:					
-NSTALLATION SCHEDULE:	<b>-</b> -	FY 95	<b>◆</b> I	<del>-</del> (	FV 96	<b>-</b> 1	£V 97	<b>-</b> ! •	74   48   13	위	Total
MPUT	ı			6	•						13
OUTPUT				~	e	•				•	13
		P.1 SH	P.1 SHOPPING LIST						UNCLASSIFED	INDIVIDUAL!	INDIVIDUAL MODIFICATION EXHIBIT P.3a
	ITEM NO 165	165		•	PAGE 20	0F 54				P-py	Pages

				3	UNCLASSIFIED					
REPORTS CONTROL SYMBOL DO-COMP(AR) 1092				INDIVIDUAL	L MODIFICATION	ATION			DATE: Fe	DATE: February 1995
MODIFICATION TITLE:	HALON / CFC MC# 1-92:08-3131	=								
MODELS OF SYSTEMS AFFECTED:	LOGISTICS SUPPORT VEHICLE (LSV)	•								
OES CHIPTION/JUSTIFICATION:	FEDERAL MANDATEB REQUIRE A PHASEOUT OF HALON BY THE END OF 1895. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPMG, VALVES, NOZZLES, AND STORAGE BOTTLES	HASEOUT OF HA NTIFFED, FOLLOM	LON BY THE END.	OF 1995. CURRENTLY REMOVAL, AND REPL	Y, THIS VESSEL USES LACEMENT OF PIPMO,	HALON AS A FINE EXTING VALVES, NOZZLES, AND	IUISING AGENT. STORAGE BOTTLES			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	F MLESTONES:	29	PLANNED QTR/YR	ACTUAL QTR/YR						
IPR Production Decision Production Contract Award First Production Harbware Delivery First Modification Kit Applied Last Modification Kit Applied		N N P <del>T</del> T	20/95 20/95 30/95 40/95							
FMANCIAL PLAN (6 in millions)	. Y	₹ \$	FY 96 0ty 6	FY 07	24 FT PER	FY 950	67 VO	FY 01	TO COMPLETE Oby \$	TOTAL Oty 6
ROTAE										
PROCUREMENT Kit Quentity Installation Kits Installation Kits Equipment (Installation) Equipment (Installation) Equipment (Installation)	-	0.20								. e 0.20
Date Training Equipment Support Equipment Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support Internal Contractor Support		0.21								0.21
Other Total Procurement Cost	1	0.41								0.41
METHOD OF IMPLEMENTATION:	CONTRACTOR				ADMIN	ADMINISTRATIVE LEADTIME	ဖ	PRODUCTI	PRODUCTION LEADTIME	4
CONTRACT DATES:	FY 95: Mar 95		FY 96:		FY 97:					
DELIVERY DATES:	FY 95; Jun 95		FY 96:		FY 97:					
INSTALLATION SCHEDULE:	EI ~1	56 61	<b>+</b> 1	13 13 13	41	<u>57 97</u>	<b>#</b> 1	FY 98	임	Total
MPUT			-	2 .						<b>v</b> v
OUTPUT				-	7					
		P.1 SHOPPING LIST	D LIST					UNCLASSIFIED	MDIVIDUAL	MDAVIDUAL MODIFICATION EXHIBIT P-34
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REPORTS CONTROL SYMBOL				NI	UNCLASSIFIED					
DO-COMPLAR) 1092				INDIVIDUAL	MODIFICATION	NOI			DATE: Fe	DATE: February 1995
MODIFICATION TITLE:	HALON / CFC MC#	1-92-08-3145								
MODELS OF SYSTEMS AFFECTED:	LARGE TUG									
DESCRIPTION/JUSTIFICATION:	FEDERAL MANDATES R A SUBSTITUTE AGENT	REQUIRE A PHASEOUT ( Will be identified, Fo	FEDERAL MANDATES REQUIRE A PHASEOUT OF HALON BY THE END OF 1895. CURRENTLY, THIS VESSEL USES HALON AS A FIRE EXTINGUISING AGENT. A SUBSTITUTE AGENT WILL BE IDENTIFIED, FOLLOWED BY EXTENSIVE REMOVAL, AND REPLACEMENT OF PIPMS, VALVES, MOZZLES, AND STORAGE BOTTLES	XF 1895. CURRENTLY, 1 REMOVAL, AND REPLAC	THIS VESSEL USES HALL CEMENT OF PIPING, VAI	DN AS A FIRE EXTINGUI LVES, NOZZLES, AND S	SING AGENT. TORAGE BOTTLES			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MRESTONES:	ent milestones:		PLANNED QTR/VR	ACTUAL QTR/YR						
IPR Production Decision Production Contract Award First Production Hardware Delivery First Modification Kit Applied Lest Modification Kit Applied			20/95 20/95 40/95 10/97							
FINANCIAL PLAN (8 in millions)	* **	FV 85	FY 96	FY 67	04 Y	FY \$	FY 00	FY 01	TO COMPLETE ON \$	TOTAL OIN
RDTAE										
PROCUREMENT Kit Quentry Na Quentry Installation Kits Fraudandon Kits Equipment Equipment Equipment Erguloment (Nonseuring) Erguloment Gonge Ordere Date		7 0.25							•	7 0.25
Training Equipment Bupport Equipment Interior Contector Euport Institution Total Cost Institution Unit Cost (non-add) Other Total Procurement Cost	Çee î	0.21								0.21
METHOD OF IMPLEMENTATION:	CONTRACTOR				ADMINISTRA	ADMINISTRATIVE LEADTIME	ω	PRODUCTI	PRODUCTION LEADTIME	9
CONTRACT DATES:	FY 95:	M 95	FY 98;		FY 97:					
DELIVERY DATES:	74 85:	Aug 95	FY 96:		FY 97:					
MSTALLATION SCHEDULE:	F1	15 13 13	<b>-</b> 1	54 86 81	<b>-</b> 1	FY 87	<b>-</b> 1	12   28   38	<b>4</b> 1	Tore
MPUT			-	~ ~	2 2 2 2 2				ř.	, ,
		P-1 SHOPPING LIST	ING LIST					China	MOVIDUAL A	MENVIDUAL MODIFICATION FYCHRIT P.3a
	TEM NO 165	165		PAGE 22	0F 54				0	
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TO U.A.L. MODIFICATION TO USES AN GOODE OFFICE THE STRATOSPHENIC OTHER CHANGES MUST BE MADE TO THE SHELTER  OTHER CHANGES MUST BE MADE TO THE SHELTER  OTHER CHANGES MUST BE MADE TO THE SHELTER  OTHER CHANGES MUST BE MADE TO THE SHELTER  OTHER CHANGES MUST BE MADE TO THE SHELTER  OTHER CHANGES MUST BE MADE TO THE SHELTER  ADMINISTRATIVE LEADTME: 6 MPODUCTION LEADTH  FY ST  TY ST  OTHER CHANGES MUST BE MADE TO THE SHELTER  ADMINISTRATIVE LEADTME: 6 MPODUCTION LEADTH  OTHER CHANGES  OTHER CHANGES MUST BE MADE TO THE SHELTER  ADMINISTRATIVE LEADTME: 6 MPODUCTION LEADTH  OTHER CHANGES  ADMINISTRATIVE LEADTME: 6 MPODUCTION LEADTH  OTHER CHANGES  ADMINISTRATIVE LEADTME: 7 TO THE SHELTER  OTHER CHANGES  ADMINISTRATIVE LEADTME: 7 TO THE SHELTER  OTHER CHANGES  ADMINISTRATIVE LEADTME: 7 TO THE SHELTER  OTHER CHANGES  ADMINISTRATIVE LEADTME: 7 TO THE SHELTER  OTHER CHANGES					ONC	UNCLASSIFIED					
A MATERIAL SAFETY CONTINUES IN THE SECRET OF MATERIAL SAFETY CONTINUES IN THE SECRET OF SECRET SAFETY CONTINUES IN THE SECRET OF SECRET SAFETY CONTINUES IN THE SECRET OF SECRET SAFETY CONTINUES IN THE SECRET SAFETY CO	REPORTS CONTROL SYMBOL DD-COMP(AR) 1092				INDIVIDUAL	MODIFICA	TION			DATE: Fel	DATE: February 1995
The control of the	MODFICATION TITLE:	AIR CONDITIONER / CFC	: MC# 1-92-07-1000								
Fig. 2012   Fig. 2012   Fig. 2013   Fig.	MODELS OF SYSTEMS AFFECTED:	AN/TSC-85 (AIR CONDIT	IONER - SSN M773 [2	PER SYSTEM])							
Comparison   Com	DES CRIPTION/JUSTIFICATION:	THE ARMY IS REQUIRED OZONE. THIS SYSTEM IN ORDER TO ACCOMM HOUSING THE SYSTEM.	) TO ELIMINATE, BY 19 CURRENTLY IS DEFEN ODATE REPLACEMENT	96, ALL EQUIPMENT ( ENT ON AN AIR CONT AIR CONDITIONERS, N	JSING REFRIGERANTS DETI YTIONER THAT USES AN O VIRING AND OTHER CHANK	ERMINED TO DEPLETE IZONE DEPLETING SUB SES MUST BE MADE T	THE STRATOSPHERIC ISTANCE. O THE SHELTER				
100 H   100	DEVELOPMENT STATUS/MAJOR DEVELOPMI	ENT MILESTONES:		PLANNED QTR/YR	ACTUAL QTR/YR						
March   Marc	IPR Production Decision				10/94						
The late of the pass   10.05	Production Contract Award				20/94						
All FLANK is a miles (0)   FF   10   10   10   10   10   10   10	1st Production Hardware Delivery				30/94						
No.   No.	Lest Mod Kit Applied			30/95							
Compared   Compared	FRIANCIAL PLAN (6 in millions)		£	₹				\$	7	TO COMPLETE Oby	TOTAL QIY .
## Of the control of	ROTAE									,	
Part   Part	PROCUREMENT Kith downstry Installation Kith Installation Kith Resultation Kith Equipment Equipment Equipment Equipment			_				,			67 1.05
Total Procurement Cost	Engineering Change Orders Date Training Equipment Support Equipment Interior Contractor Support Interior Contractor Support Interior Contractor Support Interior Contractor Support Interior Contractor Support Interior Contractor Interior Contracto	9.30 9.03	9.90 10.00								09.0
FY 95 Nov 94 FY 96 FY 97  FY 95 Nov 94 FY 96 FY 97  FY 95 FY 97  FY 96 FY 97  FY 96 FY 97  FY 96 FY 97  FY 96 FY 97  FY 96 FY 97  94 16 10 7  P-1 SHOPPING LIST  FROUCTION LEADTINE: 6 FRODUCTION LEADTINE: 6 FY 90 FY 97  FY 96 FY 97  FY 96 FY 97  FY 96 FY 97  FY 96 1 2 FY 97  94 1 2 FY 96 1 2 FY 96 3 4 1 2 FY 96 3 4 1 2 FY 96 3 4 1 1 1 2 FY 96 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0.00								1.65
FY 95 Nov 94 FY 96 FY 97  FY 95 Nov 94 FY 96 FY 97  FY 95 SA 10 10 7  34 10 10 7  P-1 SHOPPING LIST  FY 96 S4 L 2 2 2 4 1 2 FY 96  FY 97 S4 10 10 7  P-1 SHOPPING LIST  FY 96 S4 L 2 2 2 4 1 2 FY 96  FY 97 S4 10 10 7  HENN I 65 S4 L 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	METHOD OF IMPLEMENTATION:	DEPOT FIELD TEAM				ADMINIST	LATIVE LEADTIME:	ဖ	PRODUCTIC	IN LEADTIME:	ဗ
HEDULE: FY 95 Nov 94 FY 96 FY 97 A 1 E FY 95 A 1 E FY 95 A 1 E FY 95 A 1 E FY 95 A 1 E FY 95 A 1 A 1 A 1 E FY 95 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	CONTRACT DATES:	FY 95	Nov 94	FY 96		FY 97					
74 16 10 7  34 16 10 7  P-1 SHOPPING LIST  TEM NO 165  TEM NO 165	DELIVERY DATES:	FY 85	Nov 94	FY 96		FV 97					-
34 16 10 7  34 16 10 7  P-1 SHOPPING LIST  UNCLASSIFED  ITEM NO 165  PAGE 23 OF 54	INSTALLATION SCHEDULE:		FY 95		₹ 8		FV 97		FY 98		) 
34 16 10 7  P-1 SHOPPING LIST  UNCLASSIFED  ITEM NO 165  PAGE 23 OF 54	MPUT		00	,							49
P-1 SHOPPING LIST UNCLASSIFIED PAGE 23 OF 54	OUTPUT										67
PAGE 23 OF 54			P.1 SHOP	PING LIST					UNCLASSIFIED	MDIVIDUAL I	MDIVIDUAL MODIFICATION EXHIBIT P-34
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				ONO	UNCLASSIFIED					
REPORTS CONTROL SYMBOL DO-COMPIAR) 1092				INDIVIDUAL	MODIFICATION	N O I			DATE: February 1995	ary 1995
MODIFICATION TITLE:	AIR CONDITIONER / CFC MC # 1-92:07:1001	10 # 1-92-07-1001								
MODELS OF SYSTEMS AFFECTED:	AN/TSC-83 (AIR CONDITIONER - M773)	INER - M773)								
DESCRIPTION/JUSTIFICATION:	THE ARMY IS REQUIRED TO ELIMINATE, BY 1990, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEPLETE STRATOSPHERIC QZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN QZONE DEPLETING SUBSTAINCE. IN ORDER TO ACCOMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.	D ELIMINATE, BY 16 RRENTLY IS DEPENE IE REPLACEMENT A	90, ALL EQUIPMENT U ENT ON AN AIR COND! R CONDITIONERS, WIR	SING REFRIGERANTS DET ITIONER THAT USES AN C IING AND OTHER CHANGE	ERMINED TO DEPLETE S XONE DEPLETING SUBS: S MUST BE MADE TO TI	TRATOSPHERIC FANCE. HE SHELTER HOUSING				
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MLESTONES:	NT MILESTONES:		PLANNED	ACTUAL						
IPR Production Decision Production Contract Award 1st Production Hardware Definery			OTR/VR	10/94 20/94 30/94						
1st Med Kit Applied Lest Med Kit Applied			<b>4</b> 0/95	40/84						
FINANCIAL PLAN (# in millions)		FY 85 Gry 6	FY 86	FV 87 017 6	57 86 04 •	FY 35	90 A	FY 01	TO COMPLETE  Oby  0	TOTAL Oty 6
RDTAE										
PROCUREMENT Kit Quantity hashelon (its hashelon (its (Norscorring) Equipment (Rorscouring)	68.0	53 0.80							•	107 1.69
Emphasating Changa Orders Date Traising Eulpment Eupport Equipment Interior Contractor										7311
Insulation Total Cost Insulation Unit Cost (non-add)	0.50	0.45								0.95
Total Procurement Cost	tost 1.39	1.25								2.64
METHOD OF IMPLEMENTATION:	DEPOT FIELD TEAM				ADMINISTRA	ADMINISTRATIVE LEADTIME:	9	PRODUCTION	PRODUCTION LEADTIME: 3	
CONTRACT DATES:	79 95 X	Nov 94	FY 96		FY 97					
DELLVERY DATES:	FY 95 N	Nov 94	FY 96		FY 9.7					
MSTALLATION SCHEDULE:	<b>-</b> 1	13	<b>-</b> 1	13 13 13	<b>-</b> I	FY 897	<b>~</b> !	FY 98	일	Total
MPUT	22	13	=							107
OUTPUT	54 E1	13 13	<b>*</b>							107
		P-1 SHOPPING LIST	ING LIST					UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P.3e	FICATION 3a
	ITEM NO 165	£C		PAGE 24	of 54				Page of	Pages

REPORTS CONTROL SYMBOL DD-COMPIAR) 1092					1	CIACLASSII ILD					
				INDI	NDIVIDUAL	MODIFICATION	TION			DATE: February 1995	uary 1995
MODIFICATION TITLE:	AIR CONDITIONER / CFC MC # 1-82-07-1002	MC # 1-82-07-100	ž								
MODELS OF SYSTEMS AFFECTED:	ANASM-189 (AIR CONDITIONER - SSN M918)	YTIONER - SSN MS	18)								
DESCRIPTION/JUSTIFICATION:	THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEPLETE STRATOSPHERIC OZONE. THIS SYSTEM CUBRENTLY IS DEPENDENT ON AN AR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO A CCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.	TO ELIMINATE, BY LY IS DEPENDENT ( JEMENT AIR COND	1996, ALL EQUIPN IN AN AIR CONDITE THONERS, WIRING	ENT USING REFI ONER THAT USE IND OTHER CHA	RIGERANTS DETE! S AN OZONE DEP! NGES MUST BE M	NAINED TO DEPLETI LETING SUBSTANCI IADE TO THE SHELI	E STRATOSPHERIC 020) ;. NO ORDER TO FER HOUSING	¥			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	IT MILESTONES:		PLANNED OTR/YR	ACTUAL	'AL ''R			,			
IPR Production Decision Production Contract Award 1st Production Hardware Delivery				20/94 20/94 30/94	***						
1st Mod Kit Applied Lest Mod Kit Applied			40/95	Š	ž.						
FINANCIAL PLAN (\$ in millions)	• 40	FV 85	. FY 96	<b>*</b>	FV 97	Dy FY 96	FY 99 6	FY 00	F7 01	TO COMPLETE ON 6	TOTAL Oty \$
ROTAE											
PROCUREMENT ALL Quantity Installation Kite Installation Kite (Nonecuring) Equipment (Nonecuring) Equipment (Nonecuring) Equipment (Nonecuring)	538 9.03	33	0.70								57.1 9.73
Date Training Equipment Support Equipment Interim Contractor Support Interim Contractor Cupport Interimation Unit Cost (non-edd) Other (Alabestos removal) Total Procurement Cost	4.93	2302	0.38 0.01 0.50 1.58								5.31 0.50 15.54
METHOD OF IMPLEMENTATION:	DEPOT FIELD TEAM					ADMINIST	ADMINISTRATIVE LEADTIME:	φ	PRODUCTI	PRODUCTION LEADTIME:	ဇာ
CONTRACT DATES:	FY 95	Nov 94	FY 96	<b>8</b>		FY 97					
DELIVERY DATES:	FY 95	Nov 94	FY 96	<b>%</b>		FY 87					
MSTALLATION SCHEDULE:	-i   ≿	74 88 13	<b>च</b> ।	<b>~</b> 1	8 2	<b>~</b> 1	FY 97	<b>-</b> 1	FY 98	<b>41</b>	Total
MPUT	538 25	•									571
OUTPUT	538 25	<b>6</b>									571
		P.1 SH	P-1 SHOPPING LIST						UNCLASSIFIED	MDIVIDUAL MODIFICATION	ODIFICATION FP.3a
	ITEM NO 165	165		PAGE	25	OF 54				Pege of	Pages

REPORTS CONTROL SYMBOL				Š	UNCLASSIFIED					
DD-COMP(AR) 1092				INDIVIDUAL	MODIFICATION	TION			DATE: F	DATE: February 1995
MODIFICATION TITLE:	AIR CONDITIONER / CF	AIR CONDITIONER / CFC MC # 1-92-07-1003								
MODELS OF SYSTEMS AFFECTED:	ANASM-190 (AIR CO	ANASM-190 (AIR CONDITIONER - SSN M918 (2 PER SYSTEM))	2 PER SYSTEMII							
DESCRIPTION/JUSTIFICATION:	THE ARMY IS REQUIRE OZONE. THIS SYSTEM IN ORDER TO ACCOMIN HOUSING THIS SYSTER	D, BV 1996, ALL EQUIP! CURRENTLY IS DEPEND IODATE REPLACEMENT A.	AENT USING REFRIGE! ENT ON AN AIR COND AIR CONDYTIONERS, W	THE ARMY IS REQUIRED, BY 1990, ALL EQUIPMENT USING REFRICERANTS DETERMINED TO DEPLETE STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AR CONDITIONERS, WIRING AND, OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.	XEPLETE STRATOSPHEI OZONE DEPLETING SUI NGES MUST BE MADE	RIC BSTANCE. TO THE SHELTER				·
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	MILES TONES:		PLANNED	ACTUAL						
IPB Production Decision			QTR/VR	OTR/YR			•			•
Production Contract Award				20/94						
1st Production Hardware Delivery				30/94						
Last Mod Kit Applied	•		40/95							
FWANCIAL PLAN (\$ in millions)	i i	74 96 40	FY 96 Or 6	FY 87	74 SE V-1	74 VIO	FV 00	FY 01	TO COMPLETE ON 6	TOTAL Ov 6
HOTAE										
									•	
PROCUREMENT ION Quantity Installation (Che Installation (Che (Morrocuring) Equipment	272 4.35	0t 8t.0							•	282 4.50
Engineering Change Orders Date										
Training Equipment Support Equipment Interim Contractor Support										
hestallation Total Cost hestallation Unit Cost (non-edd) Other (Ashabas namoval)	2.50 0.01	60.0 10.0 10.0								2.59
Total Procurement Cost	6.85	0.39								7.24
METHOD OF IMPLEMENTATION:	DEPOT FIELD TEAM				ADMINIST	ADMINISTRATIVE LEADTIME:	<b>v</b>	PRODUCTK	PRODUCTION LEADTIME:	6
CONTRACT DATES:	FV 95	Nov 94	FY 96		FY 97					
DELIVERY DATES:	7	Nov 94	F 98		74 93					
INSTALLATION SCHEDULE:	-ı ≿i	FV 95	<b>-</b> 1	51 28 51	<b>~</b> 1	2 57 97	<b>-</b> t	FY 87	<u>1</u>	Total
meut	272	<b>п</b>	-							282
OUTPUT	272 3		-							282
		P-1 SHOPPING LIST	ING LIST					UNCLASSIFIED	HDIVIDUAL EXHI	MDIVIDUAL MODIFICATION EXHIBIT P-3a
	ITEM NO 165	165		PAGE 26	54				ě	- Leonard
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			CAR	INC. A COLLEGA					
REPORTS CONTROL SYMBOL			5	Assiried					
DD-COMPIARI 1092			INDIVIDUAL	MODIFICATION	ATION			DATE: February 1995	uary 1995
MODIFICATION TITLE:	AIR CONDITIONER / CFC MC # 1-82-07-1004	92:07:1004							
MODELS OF SYSTEMS AFFECTED:	AN/TSM-141 (AIR CONDITIONER - SSN M918)	· SSN M918)							
DESCRIPTION/JUSTFICATION:	THE ARMY IS REQUIRED TO ELIMINATE, BY 1999, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEPLETE STRATOSPHERIC OZONE. THIS SYSTEM CURRENTLY IS DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONERS, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.	NATE, BY 1899, ALL EQUIPME FINDENT ON AN AIR CONDITION S, WIRING AND OTHER CHANG	NT USING REFRICERANTS DETE NER THAT USES AN OZONE DEP IES MUST BE MADE TO THE SH	RMINED TO DEPLI PLETING SUBSTAN ELTER HOUSING 1	ETE STRATOSPHERIC OZOME ICE. IN ORDER TO ACCOMIN THS SYSTEM.	ODATE			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	NT MILESTONES:	PLANNED	ACTUAL						
IPR Production Decision			10/94						
Production Contract Award			20/94 40/94						
1st Mod Kit Applied Lest Mod Kit Applied		30/95	10/95						
FWANCIAL PLAN (6 in millions)	. 44	FY 95 FY 96	FY 97 .	. ₹	FV 99	FY 00 40	FY 01	TO COMPLETE ON	TOTAL Gty 6
RDTAE				-					
PROCUREMENT IGN Quentity Enrade don Kite fenade don Kite fenade don Kite	25 0.43							•	25 0.43
Equipment (Nonsecuring) Equipment (Nonsecuring) Engineering Change Orders									
Louis Training Equipment Support Equipment Interim Contractor Support									
Installation Total Cost Installation Unit Cost (non-edd) Other	0.23 0.01								67.0
Total Procurement Cost	0.66								0.66
METHOD OF IMPLEMENTATION:	DEPOT FIELD TEAM			ADMIN	ADMINISTRATIVE LEADTIME:	ဖ	PRODUCTIC	PRODUCTION LEADTIME:	7
CONTRACT DATES:	FY 85	₹ 8	60	FY 97					
LELIVERY DATES:	FY 95	FY 96	ω.	FV 87					
INSTALLATION SCHEDULE:	E   €	FY 95	1 2 FY 96 3	<b>-</b> 1	FY 97	41	13 13	4: 5[	Total
MPUT	25								£
OUTPUT	un .	01 01							25
		P-1 SHOPPING LIST					UNCLASSIFIED	NDIVIDUAL MODIFICATION EXHIBT P-3e	ODIFICATION P-3e
	ITEM NO 165		PAGE 27	oF 54				Page of	Pages
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1	REPORTS CONTROL SYMBOL				NACI	UNCLASSIFIED					
## A STATE CONTINUES OF CONTINU	DD-COMPIARI 1092				INDIVIDUAL	MODIFICAT	HON			DATE: Fe	bruary 1995
The control of the	AODIFICATION TITLE:	AIR CON DITIONER / CF(	5 MC # 1-82-07-1017								
Principle: The party of principle of the first indication to class the principle of the first indication to class the principle of the first indication to class the principle of the first indication to class the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the first indicates the principle of the principle of the first indicates the principle of the principle	AODELS OF SYSTEMS AFFECTED:	AWASM - 146 (AIR CO	NDITIONER - M773)								
Company   Comp	DESCRIPTION/JUSTIFICATION:	THE ARMY IS REOUREE THIS SYSTEM CURRENT REPLACEMENT AIR CON	) TO ELIMINATE, BY 199 LY IS DEPENDENT ON AI DITIONERS, WIRING AN	IG, ALL EQUIPMENT US: N AIR CONDITIONER TH O OTHER CHANGES MU	NG REFRIGERANTS DETE IAT USES AN OZONE DEL IST BE MADE TO THE SHE	RMINED TO DEPLETE ! PETING SUBSTANCE. ELTER HOUSING THIS !	STRATOSPHERIC OZOM IN ORDER TO ACCOMA SYSTEM.	f. FODATE			·
Column   C	EVELOPMENT STATUS/MAJOR DEVELOPM	HENT MILESTONES:		PLANNED	ACTUAL						
Appeal	IPR Production Decision Production Contract Award			OTR/VR	10/94 10/94						
1914   1914	1st Production Hardware Delivery 1st Mod Kit Applied Lest Mod Kit Applied	٠		40/95	30/94						
The content of the	NANCIAL PLAN (\$ in millions)	È	¥ \$	<b>2</b>	<b>7</b>			8		TO COMPLETE Qty 6	TOTAL
The second continue of the c	STAE										
Free   Free	IOCUREMENT IN Quantity Installation (Statementum) Equipment		25								727 11.62
Total Precuestration   17.04   1.35	Equipment (Norrecurring) Engineering Change Orders Date Traiting Equipment Support Equipment										
Total Procurament Coat   17.04   1.35	Interim Contractor Support Instillation Total Cost Instillation Unit Cost (non-add)	6.11	0.46								0.57
FY 95 FY 95 FY 95 FY 95 FY 95 FY 97 PY 96 FY 97 FY 95 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97			1.35								16.39
FY 95  FY 95  FY 95  FY 96  FY 97  1 2 1 2 2 3 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	THOD OF MPLEMENTATION:	DEPOT FIELD TEAM				ADMINISTRA	TIVE LEADTIME:	6	PRODUCTION	I LEADTIME:	9
HEDUE: FY 95 FY 95 FY 96 FY 97	MTRACT DATES:	FY 95		FY 96		FY 97					
FY 95   1   2   2   3   4   1   2   3   4   3   3   3   4   3   3   3   3	LVERY DATES:	FY 95		FY 96		FY 87					
## 677 20 10 10 10    P-1 SHOPPING LIST	STALLATION SCHEDULE:		FY 95		8		FY 87		\$ 8		Total
P-1 SHOPPING LIST  P-1 SHOPPING LIST  UNCLASSIFED  ITEM NO 165  PAGE 20 OF 54	MPUT			01							121
P.1 SHOPPING LIST UNCLASSIFED PAGE OF 54	OUTPUT			01						•	727
PAGE OF 54			P.1 SHOPPII	NG LIST				5	MCLASSIFIED	INDIVIDUAL M EXHIBIT	ODIFICATION 7 P-3a
		ITEM NO 1	65		PAGE					Jo d	Pages

NO LIVE   DEPLICATION	7-1016 2 PER SYSTEMI) 2 PER SYSTEMI) 2 PER SYSTEMI) 2 PER SYSTEMI) 3 PER SYSTEMI) 3 QIRANED 6 PER SYSTEMI) 6 QIRANED 6 PER SYSTEMI) 6 QIRANED 6 QIRANED 6 QIRANED 7 PER SYSTEMI) 6 QIRANED 7 PER SYSTEMI) 7 PER SYSTEMION SYSTEMIO	INDIVIDUAL M INGRERIGERANTS DETERMS HAT USES AN OZONE DEPLE UST BE MADE TO THE SHELT OTRIVIA 10/94 30/94 30/94 30/94	M O D I F I C A T I O N  MMED TO DEPLETE STRATOS  LETRA HOUSING THIS SYSTEM  FY 96  Oby  Oby	FY 99 COMMON	OATE	F 01	DATE: February 1995 TO COMPLETE OTA ON COMPLETE	1995 TOTAL Ory #
MODELS OF SYSTEMS AFFECTED:  MODELS OF SYSTEMS AFFECTED:  ESC - 38 (AIR CONDITIONER - M773 [2 PER SYSTEMS OF SYSTEMS CANDITIONER - M773 [2 PER SYSTEMS OF SYSTEMS CANDITIONER - M773 [2 PER SYSTEMS OF SYSTEMS CANDITIONERS, WITHING AND THE STATEMS CANDITIONERS, WITHING AND THE Production Decision  Production Core and Award   184 Production Decision   Production Core and Award   184 Mod Kit Applied	2 PER SYSTEM!) E, BY 1996 ALL EQUIPMENT USING EHT ON AN ARL CONDITIONER THAINING AND OTHER CHANGES MUSS PLANNED OTRIVE FY 96 FY 96 FY 96 FY 96 FY 96	REFRIGERANTS DETERMI T USES AN OZONE DEPLEI T BE MADE TO THE SHELLY ACTUAL 10/94 30/94 30/94 GDy 6	WED TO DEPLETE ST TING SUBSTANCE. IN FY 96 OTY 96 OTY 96 OTY 96 9	RATOSPHERIC OZONE. 4 ORDER TO ACCOMMOS FY EN PP   GY DY   TSTEM.			TO COMPLETE DAY	T01AL
MODELS OF SYSTEMS AFFECTED: ESC: 38 (ART CONDITIONER: M773 12 PER SYSTEM SCHWITTONLJUSTFICATION: THE ARMY IS REQUIRED TO ELIMINATE, BY 189 THE SYSTEM IS CURRENTLY DEFENCENT ON 189 THE SYSTEM IS CURRENTLY DEFENCENT ON 189 THE ARMY IS RECURRED TO ELIMINATE, BY 189 THE PROJUCION CONTROLLING AND THE SYSTEM IS CURRENTLY DEFENCENT ON 189 THE ARMY IS A PARKED AND THE MODELS WITHOUT ON 189 THE ARMY IS A PARKED AND THE MODELS WITHOUT ON 189 THE ARMY IS A PARKED AND THE ARMY I	2 PER SYSTEMI) E, BY 1986 ALL EQUIPMENT USING ENT ON AN AM COMDITIONER THAT MING AND OTHER CHANGES MUSS  RANNED OTRIYR FY 96 FY 96  OTRIYR OTHER CHANGES MUSS  GOTH OTHER CHANGES  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGES MUSS  GOTH OTHER CHANGE	REFRIGERANTS DETERMINE TO THE SHELT IN SECULAL OTHER SHELT TO SHE SHELT TO SHE SHELT TO SHELT TO SHE SHELT TO SHE SHELT TO SHE SH	NED TO DEPLETE BY TIMO GUBSTANCE. N IER HOUSING THIS ST FY 96 Ony 6	AATOSPHEING OZOME. V ONDER TO A CCOMMOS FY 99  ON  ON			TO COMPLETE  QN  .	T07AL
DEVELOPMENT STATUS (AND DEVELOPMENT MALESTONES:  FOR Production Contract Award  1st Mod Kit Applied  Last Mod Kit Applied  Last Mod Kit Applied  FMANCIAL FLAN (6 in millions)  FOR Occurrent  On Occurrent  Frequencing Charge Critical  Frequencing Charge Charge  Countract Dates:  For Mathematical Contract Award  Training Equipment  Equipment Contract Award  Frequencing  Equipment Charge Charge  Frequencing  Equipment Charge Charge  Frequencing	E. BY 1996 ALL EOUTPMENT USING FINT ON AN ART CONDITIONER THAN FINT AND OTHER CHANGES MUST PLANNED OTRIYR  OTRIYR  OTRIYR  OTRIYR	REFRIGERANTS DETERMINE TO USES AN OZONE DEPLEI T BE MADE TO THE SHELT TOUGH 10/99 30/99 30/99 FY 97  QN 6	WED TO DEPLETE STANDS. IN TIME SUBSTANDS. IN TER HOUSING THES STANDS OF FY 36 GPY	ATOSPHERIC OZONE.  FY 99  FY 99  Dry  \$\$\text{0.00}\$			TO COMPLETE Dry &	TOTAL 32
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9018/YR 30/95 7 96	•					TO COMPLETE Dry &	T07AL
1 Delivery 1 Delivery 2 0.55 1 0.29 1 0.01 1 0.29 1 0.74 1 0.29 1 0.74 1 0.79 1 1 0.79 1 1 1 0.79 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30/95 30/95 6 Cty 96	•					TO COMPLETE  ON  ON	T07AL
and  Delivery  Ony  Py  Py  Py  Ony  Py  Ony  Py  Py  Ony  Py  Py  Ony  Py  Ony  Py  Py  Ony  Py  Py  Ony  Py  Py  Py  Py  Py  Py  Py  Py  Py	30/95 FY 96	• • •					TO COMPLETE Dry &	TOTAL .
of Py FY SS ON SS	30/95 FY 96	• •					TO COMPLETE Dry &	TOTAL (
32 0.55  mring)  32 0.55  mring)  mrin	30/95 Oty FY 96	• •					TO COMPLETE Dry •	TOTAL (
22 0.55  wringl  as 0.29  madd  cot  be on the press  0.29  cot  cot  cot  cot  cot  cot  cot  co	60 FY 96	¥ .					TO COMPLETE Dry	TOTAL (
REMENT  FOR DATES:							•	
be (Norrecurring) hange Orders ment sment sment sment scar Support vial Cost Total Procurement Cost  FY 95							•	
in (Norwecuring)  brange Orders  ment  manner  man Coet  Total Procurement Coet  Fry 98								
orrecuring) hange Orders arent arent betar Support and Cost (non-add)  Total Procurement Cost  For 98								
oment case Support at Cast from addi  Total Procument Cost  FF 95								-
neter Support vial Cost foot (non-add) Total Procurement Cost  FY 95 FY 95								
Total Procurement Cost  MENTATION: DEPOT FIELD TE								0.29
MENTATION:								0.84
			ADMINISTRA	ADMINISTRATIVE LEADTIME:	<b>-</b>	PRODUCTION LEADTIME:	I LEADTIME: 7	
	FY 96		FY 97			-		
	FY 98		FY 87					
MISTALLATION SCHEDULE: PY 1 EY 95 3		MI 28	<b>~</b> I	FY 97	<b>–</b> 1	12 EV 97	티	Total
MPUT 32								32
OUTPUT 8 12 6 0	•							32
P-1 SHOPPI	P.1 SHOPPING LIST				5	UNCLASSIFIED	INDIVIDUAL MODFICATION EXHIBIT P.30	DIFICATION P-3e
(TEM NO 165		PAGE 29	of 54				Page of	Pages

REPORTS CONTROL SYMBOL				N	UNCLASSIFIED					
DD-COMPLAR) 1092				INDIVIDUAL	MODIFICATION	TION			DATE: February 1995	uary 1995
MODIFICATION TITLE:	AIR CONDITIONER / CFC MC # 1-92-07-1019	2.07.1019								
MODELS OF SYSTEMS AFFECTED:	AN/ASM-82 (AIR CONDITIONER - M773 (2 PER SYSTEM))	773 (2 PER SI	'STEM))							
DESCRIPTION/JUSTFICATION:	THE ARMY IS REQUIRED TO ELIMINATE, BY 1996, ALL EQUIPMENT USING REFRIGERANTS DETERMINED TO DEPLETE STRATOSPHERIC OZONE. THIS SYSTEM IS CURRENTLY DEPENDENT ON AN AIR CONDITIONER THAT USES AN OZONE DEPLETING SUBSTANCE. IN ORDER TO ACCOMMODATE REPLACEMENT AIR CONDITIONER, WIRING AND OTHER CHANGES MUST BE MADE TO THE SHELTER HOUSING THIS SYSTEM.	IATE, BY 1996, NDENT ON AN WIRING AND O	ALL EQUIPMENT US AMR CONDITIONER TI FHER CHANGES MUS	RING REFRIGERANTS DE HAT USES AN OZONE D ST BE MADE TO THE SH	TERMINED TO DEPLETE : EPLETING SUBSTANCE, ELTER HOUSING THIS S	STRATOSPIÉRIC OZON IN ORDER TO ACCOMI YSTEM.	E. AODATE			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	IT MILESTONES:	ă.	PLANNED	ACTUAL						
IPR Production Decision		-1	OTRIVE	10/84						
Production Contract Award				30/94						-
1st Mod Kit Applied Lest Mod Kit Applied			30/95	30/94						
FWANCIAL PLAN (8 in millions)	A1 A0 A A0	8	0% Y %0	FV 87	04 Y	04 V.	FY 00	FY 01	TO COMPLETE ON 6	TOTAL ON
ROTAE										
PROCUMENT TO TO TO THE PROCUMENT TO THE PROCUMENT TO THE PROPERTY TO THE PROPERTY TO THE Equipment (Nonrecuring)	30 0.52 45	80.0								75 1.20
Engineering Chenge Orders Date Training Equipment Support Equipment										
Interface Contractor Support Installation Total Cost Installation Unit Cost (non-add)	0.27	0.38								9.00
Total Procuement Cost	0.79	1.00								1.85
METHOD OF MIPLEMENTATION:	DEPOT FIELD TEAM				ADMINISTRA	ADMINISTRATIVE LEADTINE: 7		PRODUCTION LEADTIME:	I LEADTIME: 3	
CONTRACT DATES:	FV 95 Nov 94		F7 96		FY 97					
DLIWERY DATES:	FV 85 Nov 94		£ 8		FY 87					
INSTALLATION SCHEDULE:	1 2	en 21	<b>-</b> 1	8 8 8	<b></b> 1	FF 67	<b>~</b> 1	₩ ₩ ₩	2]	Total
HPUT	23	9								22
OUTPUT	20 23 12	9							•	55
	<b>d</b>	P-1 SHOPPING LIST	3 LIST				5	UNCLASSIFIED	MDIVIDUAL MODIFICATION EXHIBIT P.3a	YFICATION -3a
	ITEM NO 165			PAGE 30	of 54				Poge of	Pages
		: 								

			UNCLASSIFIED			
REPORTS CONTROL SYMBOL DD:COMP(AR) 1092			INDIVIDUAL MODIFICATION	NOIT		DATE February 1995
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3156					
MODELS OF SYSTEMS AFFECTED:	LANDING CRAFT, UTILITY 2000 (LCU 2000)	6				-
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R.12 REFRIGERANT FROM AL SUBSTANCES BY THE END OF 1995. A SU AND REPLACED.	L ARMY WATERCRAFT. BSTITUTE REFRIGERANT V	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1895. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTANNING R-12 WILL BE REMOVED AND REPLACED.	CLASS I OZONE DEPLETING ANNING R-12 WILL BE REMOVED		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	NT MALESTONES:	PLANNED	ACTUAL OTRIYR			
IPR Production Decision		20/95				
Production Contract Award		30/95				
First Modification Kit Applied		40/95				
Lest Modification Ait Applied FINANCIAL PLAN (\$ in millions)	. A	<b>8</b> ≿	FV 87	£ 98	FY 01 TO COMPLETE	
HOTAE	• 40 • 40	• Ato	40 4 40	* 40 * 40	40 · 40	
						1
PROCURÉMENT ICH Quentity Installation Kits Installation Kits (Nonscurring) Equipment (Nonscurring) Equipment (Nonscurring) Equipment (Nonscurring)	SS.	<b>78</b> . 60				35 0.84
Dete Treining Equipment Support Equipment						
Institute Constitute Support Institute Continue		0.95 0.03				0.95
Total Procurement Cost		1.79				1.79
METHOD OF MIPLEMENTATION:	CONTRACTOR		ADMINIST	ADMINISTRATIVE LEADTIME 6	PRODUCTION LEADTIME	20
CONTRACT DATES:	FY 85: Mar 95	FY 96:	FY 97:			
DELIVERY DATES:	FY 95: Aug 95	FY 96:	FY 97:			
INSTALLATION SCHEDULE:	1 1 2 5 5 3	<b>4</b> 1	61 61 61	FY 97	FY 98	10
MPUT		æ	5 7 7 7			35
output			2 5 7 7	•		35
	P-1 SH	P-1 SHOPPING LIST		2	UNCLASSIFIED	MDIVIDUAL MODIFICATION EXHIBIT P.30
	TTEM NO 165		PAGE 31 OF 54			Page of Pages

REPORTS CONTHOL SYMBOL			UNCI ASSIFIED	ILE D				
DD.COMP(AR) 1092			INDIVIDUAL M	MODIFICATION			DATE February 1995	5
MODIFICATION TITE:	REFRIGERATION / CFC MC # 1-93-08-3157	13157						
MODELS OF SYSTEMS AFFECTED:	LOGISTICS SUPPORT VESSEL (LSV)							
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. SUBSTANCES BY THE END OF 1895. A SUBSTITUTE REFRIGERANT AND REPLACED.	MA ALL ARMY WATERCRAFT. A SUBSTITUTE REFRIGERANT	FEDERAL LAW MANDATES THE WILL BE IDENTIFIED AND ALL EQ	FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED	ETING			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MLESTONES:	WENT MILESTONES:	PLANNED	ACTUAL					
		OTR/YR	OTRIVA					
PR Production Decision Production Contact Acces		20/95						
First Production Hardware Delivery		30/95						
First Modification Kit Applied		40/95						
FHANCIAL PLAN (\$ in millions)	7 VO	•	FY 87		8 4	FY 01 T	TO COMPLETE TO	TOTAL
ROTAE								
							•	
PROCUREMENT for Quantity brambidon Kite hashadon Kite (Novecuring)	•	0.28					<b>'</b>	0.28
Equipment (Nonsecuring) Engineering Change Orders								
Teining Equipment Support Equipment						•		
Installation Total Cost Installation Unit Cost (non-edd)		0.36						0.36
Total Procurement Cost	Cost	0.04						99.0
METHOD OF IMPLEMENTATION:	CONTRACTOR			ADMINISTRATIVE LEADTIME	φ	PRODUCTION LEADTIME	)TIME 6	
CONTRACT DATES:	FY 95: Mar 95	FY 96:		FY 97:				
DELIVERY DATES:	FY 95: Aug 95	FY 96:		FV 87:				
INSTALLATION SCHEDULE:	FY 95	<b>⇔</b> i	12 54 13 13	1 2 FY 97	<b>#</b> 1	FY 98	51	Total
MPUT		-	1 2 2				Đ	
OUTPUT			1 1 2	2				
	1.4	P-1 SHOPPING LIST			ONO	UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P.36	2
	ITEM NO 165		PAGE 32 OF	54			Page 9	

			UNCLASSIFILE	1111		
METORITS CONTROL  DD COMF(AH) 1092	en gen tem et eppene de lebelle de et te eppelie de la lebelle de lebelle de lebelle de lebelle de lebelle de l		INDIVIDUAL MODIFICATION	DIFICATION		DATE Tebrary 1995
MODIFICATION TITLE:	REFREEMATION / CFC MC # 1 93 OR 3158					
MODELS OF SYSTEMS AFFECTED:	LANDING CRAFT, UTILITY 16/00 (I CU 16/00)	1009				
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REFRICERANT FROM SUBSTANCES BY THE END OF 1995. A 1 AND REPLACED.	ALL ARMY WATERCRAFT. NIBSTITUTE REFRIGERANT V	FEDERAL LAW MANDATES THE PI VILL BE IDENTIFED AND ALL EQUI	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1895. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.	ĘD	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTOWES:	NT MILESTONES:	PLANNED	ACTUAL			
IPR Production Decision Production Contract Award First Production Hardware Delivery First Modification Kit Applied Lest Modification Kit Applied		20/95 20/95 40/95 10/96	NAME OF THE OF T			
FINANCIAL PLAN (6 in millions)	PY FY BS	FY 96	FY 87 014 6 014	FV 96 FV 99	FY 00 FY 01	TO COMPLETE TOTAL
RDT&E						
PROCUREMENT Kit Quantity Entalliston Kits Entalliston Kits Equipment Equipment	E	0.26				13 0.26
Engineerin I roomerumingi Engineering Chango Ordera Data Traching Equipment Recovert Ecidement						
Interfer Contractor Support his take to Total Cost his take to Unit Cost (non-add)		0.34 0.03				76.0
Total Procurement Cost	100	0.60				0.60
METHOD OF IMPLEMENTATION:	CONTRACTOR			ADMINISTRATIVE LEADTIME	6 PRODUCTIO	PRODUCTION LEADTIME 6
CONTRACT DATES:	FY 95: Mar 95	FY 96:		FY 97;		
DELIVERY DATES:	FY 95: Aug 95	FY 96:		FV 97:		,
MSTALLATION SCHEDULE:	PY 2 FY 95	4: -1	FY 96	1 2 57.87	4 1 2 FY 98	1010
MPUT			2 3 4			13
OUTPUT			2 3	4		
	P-1 SI	P-1 SHOPPING LIST			UNCLASSIFED	MDVIDUAL MODIFICATION EXHIBIT P-36
	ITEM NO 165		PAGE 33 OF	54		Page of Pages

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OD-COMP(AR) 1092 MODEFICATION TITLE: MODELS OF SYSTEMS AFFECTED:				Š	UNCLASSIFIED		i			
MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED:				INDIVIDUAL	L MODIFICATION	TION			DATE Fe	DATE February 1995
MODELS OF SYSTEMS AFFECTED:	REFRIGERATION / CFC MC # 1:93-08:3159	.93.08.3159								
	TUG, 128°									
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1895. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.	NT FROM ALL AR 1895, A SUBSTII	IMY WATERCHAFT. IUTE REFRIGERANT	FEDERAL LAW MANDAT WILL BE IDENTIFIED AND	ES THE PHASE OUT OF ALL EQUIPMENT CONT.	CLASS I OZONE DEPL AINING R.12 WILL BE R	ETING EMOVED			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IPR Production Decision Production Contract Award First Production Hardware Delivary First Modification Kit Applied	f Mrestowes:		PLANNED QTRIVR 20/95 20/95 30/95 40/85	ACTUAL						
Lest Modification Kit Applied FINANCIAL PLAN (8 in millions)	· 44 40	8	10/97 FY 96 QY 6	FY 87 Ony 8	FY 86	74 PB	94 Y	FY 01	TO COMPLETE QN 6	TOTAL ON 6
ROTAE										
PROCUREMENT Kit Quentity brankation Kits brankation Kits Equipment Equipment Equipment (Norrecuring) Equipment (Norrecuring) Equipment (Norrecuring)		<b>6</b> 0.12							•	6 0.12
Tradeling Equipment Support Equipment Interim Contractor Support Institution Total Cost Institution Unit Cost (non-edd) Other Total Procurement Cost		0.16 0.03 0.28								0.1 <b>6</b> 0.28
METHOD OF MAPLEMENTATION:	CONTRACTOR				ADMINISTR	ADMINISTRATIVE LEADTIME	v	PRODUCTION	PRODUCTION LEADTIME	<b>5</b>
CONTRACT DATES:	FY 95: Mar 95	so.	FY 96:		FV 97:					
DELIVERY DATES:	FY 95: Aug 95	ĸ	FY 96:		FY 97;					
MSTALLATION SCHEDULE:	~I <u>~I</u>	۲ و ان	<b>-</b> 1	12	<b>-</b> 1	FV 97	<b>-</b> 1	FY 98	의	Total
MPUT			-	-	1 2					20
OUTPUT				-	1 1 2					æ
		P-1 SHOPPING LIST	NO LIST					UNCLASSIFIED	MDIVIDUAL N EXHB	MONVIDUAL MODIFICATION EXHIBIT P.36
	ITEM NO 165			PAGE 34	of 54				Pege	Peges

				UNCLASSIFIED					
REPORTS CONTROL SYMBOL DO-COMP(AR) 1092			INDIVI	INDIVIDUAL MODIFICATION	TION			DATE February 1995	ın
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3160	3-08-3160			E				
MODELS OF SYSTEMS AFFECTED:	100, 100'					÷			
DESCRIPTION/JUSTRICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.	FROM ALL ARMY WATER 95. A SUBSTITUTE REFRIC	CRAFT. FEDERAL LAW I JERANT WILL BE IDENTIF	MANDATES THE PHASE OUT OF IED AND ALL EQUIPMENT CONT	: CLASS I OZONE DEPLETI AINING R.12 WILL BE REM	ING			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	NT MILESTONES:	PLANNED QTR/YR	ACTUAL						
IPR Production Decision Production Contract Award Flest Production Hardware Delivery Fest Modification Kit Applied		20/95 20/95 30/95 40/95							· · · · · · · · · · · · · · · · · · ·
Lest Modification Rif Applied FIMANCIAL PLAN (6 in millions)	. 40	FY 95 FY 96	96 FY 97	97 FY 96	FY 98	67 00 037 40	FY 01	TO COMPLETE TOTAL DY	
ROTAE									
PROCUREMENT IN Quantity Installation Kits Installation Kits Equipment Equipment (Nonrecurring)	-	17 0.31						tt.	0.31
Engineering Change Orders Date Tracking Equipment Support Equipment Interior Contractor Support Installation Total Cost		65.0							0.39
hetaledon Unit Cost (non-add) Other Total Procurement Cost	110	0.02							0.70
METHOD OF IMPLEMENTATION:	CONTRACTOR			ADMINIST	ADMINISTRATIVE LEADTIME	~	PRODUCTION LEADTIME	LEADTIME 5	-
CONTRACT DATES:	FY 95: Nov 94		FY 96:	FV 97:					
DELIVERY DATES:	FY 95: Mæ 95		FY 96:	FY 87;					-
INSTALLATION SCHEDULE:	- I	FY 95	1 5	41 41	12 57 87	<b>-</b> 1	13 24 25 25 25 25 25 25 25 25 25 25 25 25 25	5]	Total
MPUT			6	4				11	
OUTPUT			2 3	4	•				
		P-1 SHOPPING LIST				5	UNCLASSIFIED	INDIVIDUAL MODIFICATION EXHIBIT P-36	2
	ITEM NO 165		PAGE	35 of 54				Pege of Peges	

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REPORTS CONTROL SYMBOL DD-COMP(AR) 1092				INDIVIDUAL	MODIFICATION	NOI			DATE Fel	DATE February 1995
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3161	# 1-93-08-3161								
MODELS OF SYSTEMS AFFECTED:	TUG, 85°									
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EOUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.	ERANT FROM ALL ARI OF 1995, A SUBSTIT	MY WATERCRAFT. FI UTE REFRIGERANT WI	EDERAL LAW MANDATE: ILL BE IDENTIFIED AND A	s the phase out of ( .il equipment conta	LASS I OZONE DEPLE HANG R.12 WILL BE RE	TING			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MRESTONES:	T MALESTONES:	_	PLANNED	ACTUAL						
		,	OTR/VR	OTRIVE			÷			
Production Decision			20/95							
First Production Hardware Delivery			30/95							
First Modification Kit Applied Lest Modification Kit Applied	٠		40/95 10/97							
FRIANCIAL PLAN (\$ in millions)	ì.	FY 85 Qy 6	54 96 014	FV 87 Qqy \$	74 A0	74 PS	00 Å	67 01 67 01	TO COMPLETE	TOTAL
,			•	•						•
RDTAE										
PROCUREMENT ICh Quently Insulation Kits Insula		15 0.27							•	15 0.27
Equipment Equipment (Nonsecuring) Engineering Change Orders										
Dese Training Equipment Support Equipment										
Internation Total Cost Installation Total Cost Installation Unit Cost (non-add)		0.33								0.33
Total Procuement Cost		0.80								0.60
METHOD OF IMPLEMENTATION:	CONTRACTOR				ADMINISTRA	ADMINISTRATIVE LEADTIME	ဖ	PRODUCTIO	PRODUCTION LEADTIME	6
CONTRACT DATES:	FY 95: N	M = 95	FY 96:		FY 97;					
DELIVERY DATES:	FV 95: A.	Aug 95	FY 96:		FV 97:					-
WSTALLATION SCHEDULE:	 <b>E</b> l	2 2 3	<b>-</b> 1	4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	<b>4</b> 1	FY 97	<b>~</b> 1	13 13 13	41 51	Total
MPUT			e e	e e	6					15
OUTPUT			Ю	e e	6					15
		P-1 SHOPPING LIST	IO LIST					UNCLASSIFIED	MDIVIDUAL N EXHIBI	MDIVIDUAL MODIFICATION EXHIBIT P-34
	TEM NO 165			PAGE 36	55				4	4
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BEDORIS CONTROL SYMBOL			TATE Cabragas 1005	
HEPORIS CONTROL STREET DO-COMP(AR) 1092		INDIVIDUAL MODIFICATION	UAIE February 1993	T
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3162			
MODELS OF BYSTEMS AFFECTED:	CRANE, 100 TON			
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT AND REPLACED.	IAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING RANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED	LETING REMOVED	
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	PLANNED OTRIVE OTRIVE	ACTUAL QTRIYR		
IPR Production Decision	20/95			_
Production Contract Award	20/95			
First Production Hardware Delivery	20/96			
Last Modification Kit Applied	26/DE		•	
FMANCIAL PLAN (\$ in millions)	PY FY 95 FY 96 QY 6 QY	1 FY 97 FY 96 FY 99 t 01V t 01V t	FY 00 FY 01 TO COMPLETE TOTAL  Qry \$ 0ry \$ 0.0 C	۰
RDT&E				
			•	
PROCUREMENT NO COMMING Franklation Kits heatstance (No Francing)	17 0.31			0.31
Equipment Equipment (Norrecurring) Engineering Change Orders				
Date Training Equipment				
Support Edupment Interim Contractor Support Institute on Tatal Cost	0.39			0.39
Other Total Procurement Cost				0.70
METHOD OF IMPLEMENTATION:	CONTRACTOR	ADMINISTRATIVE LEADTIME	6 PRODUCTION LEADTIME 10	
CONTRACT DATES:	FY 95: Me 95 FY	FY 96:		
DELIVERY DATES:	FY 95: Dec 95 FY	FY 96:		
INSTALLATION SCHEDURE:	1 2 FY 95 3 4	1 2 2 2 2 4 1 2 (19)	FY 96 T TC TOTAL	<b>7</b> 11
MPUT		2 4 4 4 5	C	
OUTPUT		2 4		
	P.1 SHOPPING LIST		UNCLASSIFIED EXHIBIT P-30	2
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REPORTS CONTROL SYMBOL DD-COMPIARI 1092		INDIVIDUAL MODIFICATION	DATE February 1995	
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3163			
MODELS OF SYSTEMS AFFECTED:	CRANE, 80 TON FLOATING			
DESCRIPTION/JUSTFICATION:	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. BUBSTANCES BY THE END OF 1895. A SUBSTITUTE REFRIGERANT AND REPLACED.	VATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOYED		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:		NED ACTUAL		
IPR Production Decision	OTRIVR 20195	'		
Production Contract Award	20/95	382		
First Production Hardware Delivery First Modification Kit Applied	10/96	96		
Leet Modification Kit Applied	96/DE .	96		
FMANCIAL PLAN (\$ in millions)	PY 4 DY 8 DY	FY 96 FY 97 FY 96 FY 99 FY 000	00 FY 01 TO COMPLETE TOTAL OF GIV.	
RDTAE				
PROCUREMENT IXt Quantity IXt Quantity Installation Kits Installation Kits Equipment Equipment Equipment	1 0.04			0.04
Engineering Change Orders Date Trabalos Frainmans				
Support Equipment Interim Contractor Support Installation Total Cost	<b>5</b> 0'0			. 0.0
Installation Unit Cost (non-add) Other				
Total Procurement Cost	0.08			0.08
METHOD OF IMPLEMENTATION:	CONTRACTOR	ADMINISTRATIVE LEADTIME	6 PRODUCTION LEADTIME 10	
CONTRACT DATES:	FY 95: May 95	FY 96:		
DELIVERY DATES:	FY 85: Dec 95	FY 96:		
MSTALLATION SCHEDULE:	FY 95	1 2 5 4 1 2 3 4	1 2 10 10 10 10 10 10 10 10 10 10 10 10 10	
MPUT		•		
OUTPUT		-		
	P-1 SHOPPING LIST	181	UNCLASSIFED EXHBIT P.36	
	165 NO 165	PAGE 38 OF 54	and de sad	

REPORTS CONTROL SYMBOL				5	UNCLASSIFIED				DATE Established	9001
DD-COMP(AR) 1092		1010 00 00 10 00		¥001010	NOTACINATION AND AND AND AND AND AND AND AND AND AN	E 0				
MODIFICATION TITLE:	REFRIGERATION / CFC MC # 1-93-08-3184	MC # 1-93-06-3164								
MODELS OF SYSTEMS AFFECTED:	FLOATING MACHINE SHUP									
DESCRIPTION/JUSTIFICATION:	REMOVAL OF R-12 REI SUBSTANCES BY THE AND REPLACED.	FRIGERANT FROM ALL / END OF 1995, A SUBSI	ARMY WATERCRAFT. TITUTE REFRIGERANT V	FEDERAL LAW MANDAT WILL BE IDENTIFIED AND	REMOVAL OF R-12 REFRIGERANT FROM ALL ARMY WATERCRAFT. FEDERAL LAW MANDATES THE PHASE OUT OF CLASS I OZONE DEPLETING SUBSTANCES BY THE END OF 1995. A SUBSTITUTE REFRIGERANT WILL BE IDENTIFIED AND ALL EQUIPMENT CONTAINING R-12 WILL BE REMOVED AND REPLACED.	XASS I OZONE DEPLET INING R-12 WILL BE REA	NG IOVED			
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IPR Production Decision Production Contact Award First Production Hardware Delivary First Modification Rit Applied Lest Modification Rit Applied	ENT MILESTONES:		PLANNED QTR/YR 20/95 20/95 40/95 10/96	ACTUAL OTRIVR						
FINANCIAL PLAN (6 in mBons)	÷	\$6 V7	FY 96	FY 87	FY \$6	FV 99	FY 00	FY 01	TO COMPLETE Qry &	TOTAL QIY 6
HDTAE									•	
PROCUREMENT RO Quentity bestallation Kits bestallation Kits Equipment (Nonscuring) Equipment (Nonscuring) Equipment (Sonscuring)		3 0,11	_		·					s 0.11
Deta Training Equipment Support Equipment Inserim Contractor Support Inserime Contractor Support Inserime from Cont		0.04	es &			,				6.1.0
Other Total Procurement Cost	Cost	0.24	•							0.24
METHOD OF IMPLEMENTATION:	CONTRACTOR				ADMINIST	ADMINISTRATIVE LEADTIME	<b>&amp;</b>	PRODUCTION LEADTIME	ILEADTIME	<b>6</b> 0
CONTRACT DATES:	FY 95:	Me 95	FY 96:		F 93.					
DELIVERY DATES:	FY 85:	Aug 95	FY 96:		FY 97:					
MSTALLATION SCHEDULE:	티	12 13	<b>~</b> I	15 E1	<b>-</b> 1	51 5	<b>-1</b>	7 A	일 <b>~</b> 1	
TU-MI										m m
OUTFUL										
		P-1 SHO	P-1 SHOPPING LIST					UNCLASSIFED	MDIVIDUAL	MDIVIDUAL MODIFICATION EXHIBIT P-3a
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HEPORTIS CONTROL SYMBOL DD-COMP(AR) 1092			-	INDIVIDUAL MODIFICATION	MODIFICA	TION			DATE Feb	DATE February 1995
MODIFICATION TITLE:	Power Generation Modification	iffication MC# 1-94-08-5-82	,							
MODELS OF SYSTEMS AFFECTED:	Retrigerated Container, 8" X 8" X 20" (M919)	8' X B' X 20' (M919)								
Year Destroy article 41044.		•								
Modification is required on the M919 Refrigerated Container to allow them to accept the 10KW Tactical Quiet Generator (TQG). This generator replaces the 10KW military standard, diesel Generator Sets. Modification of the container is required to allow the operator to perform daily and weekly Preventative Maintenance Chacks and Services (PMCS) on the TQG.	M919 Refrigerated Callow the operator to	Container to allow ti perform daily and v	nem to accept the 14 veekly Preventative	OKW Tactical Quie Maintenance Checi	t Generator (TOG) ke and Services (P	. This generate MCS) on the Ti	w replaces the 16 0G.	XW military standard	, diesel Generator Se	ts. Modification
										,
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	IT MAESTONES:		PLANNED	ACTUAL						
Meterial Change Approved			10/95	10/95						
Prototype Completed Production Contract Award			30/95 30/96							
First Production Herdware Delivery First Modification Kit Applied			40/96							
Lest Modification Kit Applied FINANCIAL PLAN (\$ in millions)	È.	£ .	20/98 FY 96	. A . A	<b>8</b>	<b>8</b>	£ 5	FY 01	TO COMPLETE	TOTAL
	•	•			•	•	5	•		;
RDT&E										•
PROCUMEMENT										
IOt Outsetty Installation IOta			709 0.43							709 0.43
installs don 10te (Novecuring) Endomen										
Data Data			0.05							0.02
Support Equipment										
Installation Total Cost Installation Unit Cost (non-edd)			0.71							0.71
Other	;									1.15
hetalletion unit cost is \$1K.	i		2	•						
METHOD OF IMPLEMENTATION:	Contract maintenance tr	Contract maintenance teams to implement at field locations.	d locations.			ADMINISTRA	ADMINISTRATIVE LEADTIME: 9	PRODUC	PRODUCTION LEADTIME:	6
CONTRACT DATES:	Š		FY 96:	Jun 96	<b>74</b>	Feb 97				
DELIVERY DATES:	₹ 88		FY 96:	Dec 96	74 87	Mey 97				
MSTALLATION SCHEDULE:	ži	FY 95	₩.	74 96 13	<b>-</b> -(	FY 97	41	FY 98	임	Total
TOPPOL	l					175	37			607
						5	ž.	175 34	٠	506
						8				Š.
		P.1 SHOPPING LIST	ANG LIST					UMICI ASSERTED	INDIVIDUAL I	MDIVIDUAL MODIFICATION FXHIRT P.3a
•		i e		9	3					
	COI ON MAIN	COL		-						

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REPORTS CONTROL SYMBOL IDD.COMP(AR) 1092		FICATION	DATE February 1995
MODIFICATION TITLE:	Medium Grder Bridge Upgrede		
MODELS OF SYSTEMS AFFECTED:	Rainforcement Set; Medium Gitder Bridge (M.2000)		
DESCRIPTION JUSTIFICATION: The Reinforcement Set has und This program will procure these	PTOWJUSTFICATION: The Reinforcement Set has under gone a configuration change to enhance the operational This program will procure these components and deliver them to fielded units to upgrade t	PTON/JUSTFICATION: The Reinforcement Set has under gone a configuration change to enhance the operational and mission capabilities of the Medium Girder Bridge System. These modifications added additional components to the new set configuration. This program will procure these components and deliver them to fielded units to upgrade the existing Reinforcement Sets to the new set configuration.	components to the set.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTOWES: Material Charge Approved Production Contract Awarded		PLANNED ACTUAL OTRIVA OTRIVA 10/95 20/95	
KR Delivery FINANCIAL PLAN (0 in millions)	TY FY 96 FY 96 ON 6 ON	FY 87 FY 86 FY 98 FY 00 FY 01	TO COMPLETE TOTAL ON 6 ON 16
HOTAE			
PROCUREMENT IOR Quenetry Installation filte Installation filte Installation filte (Normocuring) Equipment (Normocuring) Equipment (Normocuring) Engineering Chenge Orders Date Training Equipment Buppert Equipment	1.59		16 1.59
Interim Centration Support Intuition Total Cost Intuition Unit Cost (non-edd) Other			1.59
Total Procurement Cost	J. Du		
METHOD OF IMPLEMENTATION:	Prouse and field to the MGB users additional components. As this is a set upgrade, installation of components is not required.	ADMINISTRATIVE LEADTINE: 0	PRODUCTION LEADTIME: 3
CONTRACT DATES:	FY 85: Mar 95	FY 96:	
DELIVERY DATES:	FY 95: Jun 95 F	FY 96:	
INSTALLATION SCHEDULE:	1 2 12 14 15	. <u>FY 96</u> 3 4 1 2 3 4 1 2 3 4	2 <u>1</u>
10.48			
OUTPUT			
	P-1 &HOPPING LIST	UNCLASSFED	8 🔭
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Manya Matuco atagas			UNCLASSIFIED			
DO-COMP(AR) 1092		INDIVIDUAL	AL MODIFICATION		DATE February 1995	2
MODIFICATION TITLE:	Laundry Water Rause System Modification					
MODELS OF SYSTEMS AFFECTED:	M 85 Leundry Unit, Trailer Mounted					
DESCRIPTION/JUSTFICATION: The Leundry Water Reuse mod an EPA requirement. This mod	PTOWJUSTECATION: The Leurdry Water Reuse modification will allow the leurdry units to conserve 33% to 45% of the water used by the current configuration. Additionally it will allow for recepturing contaminated waste water which is an EPA requirement. This modification also adapts this leundry to accept the new 10KW Tactical Quiet Generator (TQG) in lieu of the military standard generator.	33% to 45% of the water new 10KW Tactical Quiet G	used by the current configuration. Addition Senerator (TQG) in lieu of the military stands:	ally it will allow for recepturing co id generator.	ontaminated waste water wh	ich is
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MRESTONES:	NT MALESTONES:	PLANNED ACTUAL	UAL			
Menerial Change Approved PRI/Production Decision Production Contract Award			LYTH			
First Production Nardware Definery First Modification Kit Applied Lest Modification Kit Applied FINANCAL PLAN (6 in millions)	AD \$ AD \$ AD	30/96 30/97 7 86 8 90/97 8 90/97	FV 96 FV 99 4	FV 00 FV 01	TO COMPLETE TOTAL	¥ *
RDTAE					,	
PROCLUMENENT ICR Country Insulation (Chr. Icromodelon (Chr. Icromo		00 0.42			<b>8</b>	0.42
Institute Equipment Euppert Equipment Institute Contractor Euppert Institute Total Cost Institute On Unit Cost Institute On Unit Cost		0.10				0.10
Other Total Procurement Cost Actual installation unit cost is \$4000 each.	88.0.h.	0.52				0.52
METHOD OF IMPLEMENTATION:	Depot field teem.		ADMINISTRATIVE LEADTINE: 6		PRODUCTION LEADTIME: 2	
CONTRACT DATES:	FY 95:	FY 96: Mar 96	FV 9);			
DELIVERY DATES:	FV 95:	FY 96: May 96	FY 97:			
MSTALLATION SCHEDULE:	FY FY 85 3 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY 97	4 1 12 FV 88 13	10 10 10 10 10 10 10 10 10 10 10 10 10 1	31
Berut			15 15 15			8
OUTPUT			15 15 15 15		•	8
	P.1 SHOPPING LIST		73	UNCLASSIFIED	18 -	2
	COL DO MAIL	SOL.			1000	

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REPORTS CONTROL SYMBOL				-	INDIVIDUAL MC	MODIFICATION				DATE February 1995	ויץ 1995
MODERCATION TITLE:	Certification Qualification Modification	icetion Mod	lification		1						
MODELS OF SYSTEMS AFFECTED:	Chamber, Recomp	ression, 10	Chamber, Recompression, 100 pai, 3 Man (M300)								•
DESCRIPTION/JUSTFICATION: Recompression chamber is used to treat diver recompression sickness. Modification of	o treat diver re	acompret	ssion sickness. I	Modification of the	se chambers is required	these chambers is required to comply with the current Army cartification requirements for life support and breathable air systems.	тепt. Атту се	rtification requ	linemente for life :	upport and breathab!	o air systeme.
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTOMES:	MLESTONES:			PLANNED	ACTUAL		,				
Metwist Change Approved Revised It.S Plan Implemented Production MIPR Accepted by Nevy First Deferry of Modified Chamber Last Deferry of Modified Chamber	•			20/95 20/95 20/95 30/96 20/97							
FWANCIAL PLAN (8 in millions)	Ł ż	_	FV 85	FY 96 Ory 6	FY 97 GW 8 0	FY 96 FY 99 Ory \$ Ory	•	00 F7 00 •	FY 01 On 6	TO COMPLETE Ory 6	101AL 0n \$
ROTAE											
PROCUREMENT KR Quentity Brotaliston Kits brotaliston Kits (Nonscurring)			3 0.24	5 0.43							8 0.67
Equipment (Noveauring) Equipment (Noveauring) Engineering Change Orders Date			0.10 81.0	0.05							0.15
Training Equipment  Support Equipment  Institution Total Cert  Institution Total Cert  Institution Unit Cost Inon-add  Other (Froduction Certification)  Total Procurement Cost			0.26 0.09 0.06 0.85	0.43 0.09 0.90							0.68 0.17 1.75
METHOD OF MAPLEMENTATION: Chamber modification will be performed by the Navy. Work will be performed by Navy basis. The extended initial production lead time is due to substantial initial production	formed by the	Navy. V	Nork will be perfe to substantial init		rified chamber specialir cess, personnel, and m	ADMINISTRATIVE LEADTIME: 6  certified chamber specialists. Both hardware and installation funds will be accepted simulanteously by the Navy on a reimbursable process, personnel, and material certification requirements. Once established, actual production lead time will drop significantly.	: LEADTME: 6 installation fu remente. On	unds will be ac ce astablished	PRODUCTION scepted simulante , actual productic	PRODUCTION LEADTIME: 18 (Initial) d simulanteously by the Navy on al production lead time will drop	a reimbursable significantly.
CONTRACT DATES:	Ĕ	FY 95: N	Mæ 95	FY 96:	Dec 95	FY <b>97</b> :					
DELIVERY DATES:	ž	FY 95: J	Jul 96	FY 96:	Nov 98	FY 87;					
INSTALLATION SCHEDULE:	<u>E</u> l	-1	FY 95	<b>-</b> 1	13	FY 97	61	<b>-</b> 1	15 E	<b>₽</b> 1	Total
TO-ME		6			8	- 2				•	80
OUTPUT					~	1 2 3					8
				P-1 SHOPPING LIST	667	2			UNCLASSIFIED	MEDIVIDUAL MODIFICATION EXHIBIT P-34 Page of Penes	DDIFICATION P.3e
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REPORTS CONTROL SYMBOL DO-COMP(AR)1092	8 U D G E	•	ITEM JUSTIFICATION SHEET	ON SHEET		DATE Feb	DATE February 1995	
APPROPRIATION / BUDGET ACTIVITY Other Procurement: Army 3			P-1 ITEM NOMENCLATURE	ENCLATURE				
Other Support Equipment			Modification (Smoke Obscu	Modification Kits (M157) (Smoke Obscuration)				-
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY			502					
COST(IN MILLIONS)			2.8					

-

를 DESCRIPTION: The current fielded mobile smoke generator applications include the M157 Smoke Generator Sets (SGS) and the M1059 Smoke Generator Carrier (SGC). M157A1 SGS materiel change incorporated user identified safety and operational improvements to the fielded system. The M157A1E1 change will provide multifuel capability.

JUSTIFICATION: The modification kits will upgrade items to the M157A2 configuration providing safety, operational and multifuel improvements.

• of P EXHIBIT P-40

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**1TEM NO 165** 

DD Form 2454, JUL 88

P-1 SHOPPING LIST

Page

## INDIVIDUAL MODIFICATION

February 1995

MODIFICATION TITLE: Retrofit of M157 and M1059 to M157A2 Multifuel MODELS OF SYSTEM AFFECTED: M157 Smoke Generator Set and M1059 Smoke Generator Carrier DESCRIPTION/JUSTIFICATION: Upgrade Includes Safety, Operational and Multifuel Improvements DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PPQT Complete Jul 94/Milestone III DECELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Dec 94	1157 and Minoke Gene e Include	11059 t rator s Safet	Set and Ly, Oper PPQT C	7A2 Mu nd M100 eratio Comple	ltifuel 59 Smoke nal and ete Jul	e Gener Multif 94/Mil	ator Carrie uel Improve estone III	r ments
FINANCIAL PLAN: (\$ in millions) FY Q	94 <u>FY95</u> Y\$ QTY\$	FY96 QTY\$	FY97 QTY\$	FY98 QTY\$	BY2+2 QTY\$	BY2+3 QTY\$	FY94 FY95 FY96 FY97 FY98 BY2+2 BY2+3 BY2+4 TC TOTAL QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$ QTY\$	TOTAL QTY\$
RDTE 6/2	6/2.780						/9	6/2.780
PROCUREMENT								

ROCUREMENT		
Kit Quantity	502	205
Installation Kits	2.480	2.480
Installation Kit Nonrecurring		
Equipment Nonrecurring		
Engineering Change Orders	0.289	
Data		
Training Equipment		
Support Equipment		
Interim Contractor Support		
Installation Total Cost		
Installation Unit Cost (non-add)		
Other		
Total Procurement Cost	502/2.769	502/2.769

9 months TOTAL ADMIN LEADTIME 4 months PRODUCTION LEADTIME: TC Budget Year 2: Budget Year 2: 48/72/72/48 **FY98** 0 Jan 96 Sep 96 48/72/72/70 **FY97** 48/72/ Budget Year 1: Budget Year 1: FY96 FY95 Depot Current Year: Current Year: FY94 METHOD OF IMPLEMENTATION: CONTRACT DATES: DELIVERY DATES: INSTALLATION OUTPUT: INPUT:

ITEM 165

54 PAGE 44 OF

502 502

Reports Control Symbol DD-COMP (AR) 1092	R)	BUDGE	BUDGET ITEM JUSTIFICATION SHEET	CATION SHEE	_		DATE: February 1995	uary 1995
Appropriation/Budget Activity Other Procurement Army 3 - Other Su	Activity my 3 - Other Su	pport Equipment	¥	P-1 Item Nomenclature MODIFICATION OF IN	P-1 tem Nomendature MODIFICATION OF IN-SVC EQUIPMENT (MA4500)	EQUIPMENT (	(MA4500)	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)		6.1	7.0	4.0	4.0	3.9	4.4	4.4
DESCRIPTION. Mixto-climate Conditioning System (McS) PIP Number: 143-08-4008. The MCS is a self-contained unit designed to cool and verifiate the heavy work suit worm by the M9 ACE operator while the vehicle is exposed to a Nuclear, Blobgical, Chemical (MSC) environment. The entire M9 ACE fleet will receive by the M9 ACE operator while the vehicle is exposed to a Nuclear. Blobgical, Chemical (MSC) environment. The entire M9 ACE fleet will receive the Installation K4 will be installed at an expension of the MCS control box, and mounting plandware. The MCS equipment can be easily installed or moved between vehicles once all unbridges have received the installation K4. The MCS equipment will be installed at unit level by unit personnel. M9 ACE Block Modification SIP 3 consists of ten hardware improvements. This includes related application and data costs. The fist of improvements is as follows: final drive redesign, habisprocket redesign, hardware improvements. This includes related application and data costs. The M9 ACE Block Modification SIP 3 consists of ten hardware improvements. This includes related application and data costs. The M9 ACE will be deployed in the rate entire the manual process planter, automatic track tensioner, automatic track tensioner, automatic track tensioner, and the process planters and the vehicle's survivability because appetralistly first translering conditions such as the automatic as dentified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, durability, readiness and maintenance of the M9 ACE.	o-climatic Conditor the suit worm by the suit worm by the suit worm by the suit installed by a dejuit installed or my unit personnel. St. bowl access of improvements of improvements and 85 degrees Former and 85 degrees F	tioning System (fine M9 ACE oper to Installation Kit oper-level team. Thoved between voved between voved between voved between voved between voved between voved between voved between voved between voved between voved between virtual voved between virtual voved between virtual voved between virtual voved between virtual voved between virtual	into System (MCS) PIP Number: 1-83-08-4008. The MCS is a self-contained unit designed to cool and the M9 ACE operator while the vehicle is exposed to a Nuclear, Blobgical, Chemical (URIC) environment, the Installation Kit (Group B) consisting of hamesses, fifters, control box, and mounting hardware. The pot-level team. The MCS (Group B) consists of the MCS cooling unit and ballistic shielding. The MCS moved between vehicles once all vehicles have received the installation Kit. The MCS equipment will be noved between vehicles once all vehicles have received the installation Kit. The MCS equipment will be not all vehicles have received the installation Kit. The MCS equipment will be not shift is as follows: final drive redesign, hubsprocket redesign, hardened track pin, steel dozer blade, plates, automatic track tensioner, automatic blade folder, hydraulic troubleshooting test points and deployed in theaters experiencing a wide range of weather conditions including ambient temperatures inherence, and maintenances the lone operator's performance and the vehicle's survivability anditions such as heat exhaustion or heat stroke may be averted with the help of an efficient personal cardion she assemble vehicles and maintenance of the M9 ACE.	er: 1-83-08-40K thicle is exposed sting of hamess sting of hamess e) consists of te vehicles have re o) a consists of te lesign, hub/spra er, automatic bl a wide range hances the lone or heat stroke rr e modifications and maintenance	1 to a Nuclear, B strains, control he MCS cooling ceived the Install in hardware implicated the design, had ade folder, hydray be averted way be averted was identified by the of the M9 ACE.	a self-cortained lokogical, Chemi I box, and mour unit and ballistik fation Kit. The I revements. This rardened track paulic troubleshouth the help of a right the help of a rect to the U.S. Army E.	CS) PIP Number: 1-83-08-4008. The MCS is a self-contained unit designed to cool for while the vehicle is exposed to a Nuclear, Biological, Chemical (NBC) environmen 37oup A) consisting of harnesses, filters, control box, and mounting hardware. The 18 MCS (Group B) consists of the MCS cooling unit and ballistic shielding. The MCS hicles once all vehicles have received the Installation Kit. The MCS equipment will be hicles once all vehicles have received the Installation Kit. The MCS equipment will be hidled for a consists of ten hardware improvements. This includes related applifinal drive redesign, hub/sprocket redesign, hardened track pin, steel dozer blade, c track tensioner, automatic blade folder, hydraulic troubleshooting test points and crack tensioner, automatic blade folder, hydraulic troubleshooting test points and east exhaustion or heat stroke may be averted with the help of an efficient personal assential vehicle modifications as identified by the U.S. Army Engineer School. Applifity, readiness and maintenance of the M9 ACE.	o cool and nument. The MCS Will be application olade, and and and Application
DD Form 2454, Jul 88			P-1 SHOPPING LIST	NG LIST				
			ITEM NO 165	5 PAGE NO. 45 OF 54	5 OF 54		Exhibit P-40	

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Reports Control Symbol DD-COMP (AR) 1092		BUDG	ET ITEM JUS	BUDGET ITEM JUSTIFICATION SHEET	HEET		DATE: February 1995	1995
Appropriation/Budget Activity Other Procurement Army 3- Other Support Equipment	other Support	Equipment		P-1 Item Nomenclature MODIFICATION KITS M9 ARMORED COMBA	enclature N KITS ) COMBAT EA	P-1 Item Nomenclature MODIFICATION KITS M9 ARMORED COMBAT EARTHMOVER (ACE)	CE)	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY								
COST (MILLIONS)		4.5	5.7	2.1	2.1	3.9	1	න භ
•	ITEM	•	NAME		FY94	FY95	FY96	FY97
M9 ARMORED COMBAT EARTHMOVER	RTHMOVER		MICRO CLIMATIC CONDITIONING SYSTEM MC#1 83 08 4008	ATIC NG SYSTEM 1008	0.000	4.482	0.163	0.00
M9 ARMORED COMBAT EARTHMOVER	RTHMOVER		BLOCK MODIFICATION PHASE 3	IFICATION			5.616	2.145
DD Form 2454, Jul 88			P-1 SHOPPING LIST	4G LIST				
			ITEM NO 165		PAGE NO. 46 OF 54		Exhibit P-40	·

Reports Control Symbol DD-COMP (AR 1092	~	BUDGE	T ITEM JUSTIF	BUDGET ITEM JUSTIFICATION SHEET	F:		DATE: February 1995	ary 1995
Appropriation/Budget Activity Other Procurement Army 3 - Other Support Equipment	Activity my 3 - Other Si	upport Equipmer	<b>+</b>	P-1 Item Nomendature INSTALLATION OF MCM9 ARMORED COMB	P-1 Item Nomendature INSTALLATION OF MODIFICATION KITS M9 ARMORED COMBAT EATHMOVER (ACE)	ATION KITS THMOVER (AC	je G	
	FY94	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				-			-	
COST (MILLIONS)		1.6	1.3	1.9	1.9	6	6.	ĸ
	ITEM	1	NAME		FY94	FY95	FY96	FY97
M9 ARMORED COMBAT EARTHMOVER	3AT EARTHM(	OVER	MICRO CLIMATIC CONDITIONING S MC# 1 83 08 4008	MICRO CLIMATIC CONDITIONING SYSTEM MC# 1 83 08 4008	0.000	1.624	1.265	0.000
M9 ARMORED COMBAT EARTHMOVER	3AT EARTHM	OVER .	BLOCK MODIFICATION PHASE 3	DIFICATION	0000	0.000	0.000	e. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
DD Form 2454, Jul 88				ING LIST				
			ITEM NO 16	165 PAGE NO. 47 OF	47 OF 54		Exhibit P-40	

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IREPORTS CONTORL SYMBOL DO-COMP (AR) 1092 WEADON SYSTEM MODIFICATION - SIMMARY	VOALMUIS. MOI			DATE: February 1995
	I CAN BOMENAN	P-1 ITEM NOMENCLATURE		
APPROPRIATION/BUILDEE   ACTIVITY Other Procurement Army 3 - Other Support Equipment		MODIFICATION OF IN-SVC EQUIPMENT (OPA 3)		(MA4500)
SYSTEM, MODIFICATION	FY94	FY95	(TOA DOLLARS IN MILLIONS) FY96	FY97
M9 ACE MODIFICATION				
MICRO-CLIMATIC CONDITIONING	0.000	6.106	1.428	0.000
BLOCK MODIFICATION - PHASE 3	0.000	0000	5.616	3.994
SYSTEM TOTALS	0.000	6.104	7.044	3.994
P-1 SHOPPING LIST PAGE NO 480 5 4		UNCLASSIFIED		c a Figure 2
				Exhibit F-3

MODIFICATION OF WEAPONS SYSTEMS	STEMS	DATE: February 1995
MODIFICATION TITLE: Micro-Climatic Conditioning System (MCS), 1-83-06-4008	1-83-06-4008	
MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)	19 ACE)	
DESCRIPTION/JUSTIFICATION: This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.	ans for lowering the I n the threat includes ivability will be enhan liness caused by ove	49 operator's body temperature a Nuclear, Biological, or ced by improved operator exposure to excessively high
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	PLANNED	ACCOMPLISHED
Preliminary Design Review:	3Q/83	30/83
Critical Design Review:	30/88	3Q/88
Contractor Test and Evaluation:	20/91	20/91
Development Test and Evaluation:	40/91	40/91
Production Decision	40/91	4Q/91
TDP Available:	10/92	2Q/92
Hardware Delivery	10/94	20/94
Field Application Begins	10/95	
P-1 Shopping List Item No.: 165 Page 49 of 54		Exhibit P-3A

REPORTS CONTROL SYMBOL								UNCLASSIFIED	FIED				A	TE: Febr	DATE: February 1995
MODIFICATION TITLE:	Micro-Climatic Conditioning System	c Condit	ioning	ystem	(MCS)	(MCS), 1-83-08-4008		INDIVIDUAL MODIFICATIONS	CATIO	2			+		
MODELS OF SYSTEMS AFFECTED:	M9 Armored Combat Earthmover (M	Combat	Earthm	over (N	19 ACE)	•									
DECRIPTION/JUSTIFICATION:	This modification will provide the means for to Biological, or Chemical (NBC) environment. S overexposure to excessively high temperature.	flon will   Chemica to exces	provide M (NBC Ishely I	the me envir	ans for xnment. nperatur	lowering t Survivabi re.	the M9 operator iffly will be entix	r's body ten enced by in	perature c	luring hot we serator perfo	ether extra mence en	This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological, or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of litness caused by overexposure to excessively high temperature.	• threat i	rickides	a Nuclean by
DEVELOPEMENT STATUS/MAJOR DEVELOPMENT MILESTONES:	LOPMENT MILESTO	NES:	_		9			ı							
	QTY \$ Q1	ב בי בי	\$ QTY	g	44	γιν. ατγ <b>\$</b>	TID S	₹ aTY •	FY99 \$ QTY	F¥00 <b>∞</b>	977 977	1 TO COMPLETE QTY \$		at Ta	TOTAL
PROCUREMENT KR Quantity															
Installation Kits Engineering Support TPF/NET	. 7.0. . 3.	374 2	2.1 0.2 0.3	• ·	<b>.</b> .					5				458	0.3
Installation Kits (Nonrecurring)															?
Equipment (Nonrecurring)	5.2	25 25 25	2.2	ā	0.6									9	7.7
Installation Unit Cost(Non-add) Installation of Hardware PY Equipment		•		E	<u> </u>									\$	0.7
FY96 Equipment FY97 Equipment															
FY98 Equipment FY99 Equipment FY00 Equipment															
FY01 Equipment To Complete Equipment															
Total Installation Costs TOTAL PROCUREMENT COST	5.9 2.9	253 1.6 6.1		195	ώ. <b>4</b> .									-	2.9 13.4
METHOD OF IMPLEMENTATION:	Depot Team - Field Application	Fleki Ap	plication	E				ADMINIS	TRATIVE	ADMINISTRATIVE LEADTIME:		PRODUCTION LEADTIME	TIME		∞
CONTRACT DATES:	FY94:						FY95: MAY 95	88		<b>E</b>	FY96:	MAY 96			
DELIVERY DATES:	FY94:						FY95: JUL 95	8		۵	FY96: J	JUL 96			
INSTALLATION SCHEDULE:	₹	FY94	Z E	4	-	FY95	3	1 2	FY96	4	2	FY97 3 4		¥	TOTAL
INPUT		32					<b>\$</b>	8	180	124					844
OUTPUT						ន	9	8	128	120	Z				448
	ITEM 165	2	P.1 S	P.1 SHOPPIN	IST IST	PAGE 50	50 OF 54	7			NON	INDIVIDUAL MODIFICATION EXHIBIT P.30	NO.		
							5								

		1		60	ar Z
95		TOTAL	4.3	2.6	ation Summ
February 1995		FY01	0.0	0.0	fication Install
		FY00	0.0	0.0	Exhibit P3N Modification Installation Summary
SUMMARY		FY99	0.0	0.0	
STALLATION S	in Millions)	FY98	0.0	0.0	PAGE NO. 51 OF 54
MODIFICATION INSTALLATION SUMMARY	(TOA, Dollars in Millions)	FY97	0.0	0.0	ITEM NO. 165 P
WO		FY96	0.0	<del>1.</del> 3	111
		FY95	<b>6</b> .	<del>.</del>	
		FY94	0.0	0.0	
		SYSTEM/MODIFICATION	MICRO-CLIMATIC COOLING SYSTEM MOD KITS	INSTALLATION OF MODIFICATIONS	

MODIFICATION OF WEAPONS SYSTEMS MODIFICATION TITLE: M9 ARMORED COMBAT EARTHMOVER (ACE) B MODELS OF SYSTEMS AFFECTED M9 Armored Combat Earthmover (M9 ACE) DESCRIPTION/JUSTIFICATION: This also includes application, program man essesntial vehicle modifications as identified these items will significantly improve reliability ACE. Each hardware improvement is application with blade folder. Will preliminary Design Review:  Critical Design Review: Contractor Test and Evaluation: Development Test and Evaluation: Production Decision	MODIFICATION OF WEAPONS SYSTEMS  MORED COMBAT EARTHMOVER (ACE) BLOCK MODIFICATION - PHASE 3  M9 Amored Combat Earthmover (M9 ACE)  This modification program consist of ten hardware improvements to the M9 ACE system. This also includes application, program management, and data costs. These are immed essesnital vehicle modifications as identified by the U.S. Army Engineer School. Applications will significantly improve reliability, durability, readiness, and maintenance of ACE. Each hardware improvements is applied to 448 vehicles. The steel dozer blade winstalled in conjunction with blade folder. Winches will be installed at unit level.  VELOPMENT MILESTONES: PLANNED  AQ/95  N/A  N/A  N/A	EMS  CE)  hardware improven management, and diffed by the U.S. Arrability, resapplied to 448 vehic winches will be in Winches will be in N/A  2Q/96  N/A  N/A	MODIFICATION OF WEAPONS SYSTEMS    DATE: February 1995   MORED COMBAT EARTHMOVER (ACE) BLOCK MODIFICATION - PHASE 3   M9 Armored Combat Earthmover (M9 ACE)   This modification program consist of ten hardware improvements to the M9 ACE system. This also includes application, program management, and data costs. These are immediate sesses it emptications as identified by the U.S. Army Engineer School. Application of these items will significantly improve reliability, densities. The steel dozer blade will be installed in conjunction with blade folder. Winches will be installed at unit level.    ACE   Each hardware improvements is applied to 448 vehicles. The steel dozer blade will be installed in conjunction with blade folder. Winches will be installed at unit level.    ACI   ACCOMPLISHED
TDP Available: Hardware Delivery Field Application Begins		1Q/96 2Q/97 3Q/97	
P-1 Shopping List Item No.: 165	Page 52 of 54		Exhibit P-3A

REPORTS CONTROL SYMBOL INCOMPARISED	CHCLASSIFED						TW3	DATE: February 1986	1986	
MODIFICATION TITLE:	Block Modification Phase 3						1			
MODELS OF SYSTEMS AFFECTED:	M9 Armored Combat Earthmover (M9 ACE)									
DECRIPTION/JUSTIFICATION:	This modification program consists of ten hardware improvements to the MB ACE system. This also includes application, program management, and data costs. These are immediate essential vehicle modifications as identified by the U.S. Army Engineer School. Application of these hams will significantly improve reliability, durability, readiness and maintenance of the MB ACE.	system. This o y Engineer Sch	ho Include ool. Appl	e applicat cation of ti	lon, progri Yese Remi	om meneg will signifi	ement, er cardy Im	d data c	şi Ş	· · · · · · · · · · · · · · · · · · ·
DEVELOPEMENT STATUSAMAJOR DEVELOPMENT MILESTONES:	VELOPMENT MILESTONES:									
FINANCIAL PLAN(\$in Millions)	FY94/PRIOR FY95 FY96 FY96 FY97 FY98	e Frae	F 700		Ę,	TO COMPLETE	MPLETE	TOTAL	₹'	
RDT&E BROCI IDEMENT			5	<del>5</del>	* -	5	<b>,</b>	<u> </u>	<b>,</b>	
KR Quantity										
Installation Kits Installation Kits (Nonsecuring)	2024 5.6 576 2.1 288 2	2.1 339 3.9	325	4.1 413	3.9	\$	0.3	4032	22.0	·
Equipment (Nonrecurring)										
Installation Total Costs	1344 1,9 1344 1	1.9 0 0	17	0.3 277	7 0.5		6	3136	<b>9</b> .	
Installation Unit Cost(Non-add)										
FY95 Equipment										
FY96 Equipment										
FY97 Equipment									•	`
FY99 Equipment										
FY00 Equipment FY01 Equipment										•
To Complete Equipment										
Total Installation Costs TOTAL PROCUREMENT COST	1344 1.9 1344 1.9 17 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0	£	0.3 277	7 0.5 4.4		<b>0</b> 0	3136 3136	4.6 26.6	
METHOD OF IMPLEMENTATION:	Depot Team - Field application ADMINISTRATIVE LEADTIME: 2	E LEADTIME: 2		росто	PRODUCTION LEADTIME	ME.	€0			
CONTRACT DATES:	FY96 FEB 96 FY97:	738: -	FY98:							-
DELIVERY DATES:	FY96: FEB 97 FY97:		FY98:							
INSTALLATION SCHEDULE:	FY97 FY96		ŭ.	FY00			FY01		2	TOTAL
	PY 1 2 3 4 1 2 3 4 1 2	3	7	6	4	1 2	6	4		
INPUT	672 336 336 336 336 336		5	8	8	8	8	21		3136
OUTPUT	336 336 336 336 336 338 338			51 6	8	8	8	2	21	3136
	P-1 SHOPPING LIST		2	WOUNT IN	NOWDUAL MODIFICATION	Z				
	ITEN 165 PAGE 53 OF 54			EXHIBIT P-3e	8					
										7

February 1995		<u>101AL</u> 21.7	<b>4.</b>
F		3.9	0.5
		FY00 4.1	e. 0
N SUMMARY		8.3.9 3.9	0.0
NSTALLATION	s in Millions)	FY98 2.1	6.
MODIFICATION INSTALLATION SUMMARY	(TOA, Dollars in Millions)	FY97 2.1	6.1
W		5.6	0.0
		6.0 0.0	0.0
		6.0 0.0	. 0.0
		SYSTEMMODIFICATION SYSTEM BLOCK MODIFICATION PHASE 3	SYSTEM BLOCK MODIFICATION INSTALLATION

ITEM NO. 165 PAGE NO540F 54 Exhibit P3N Modification Installation Summary

		UNCLASSIFIED	IFFED					
REPORTS CONTROL SYMBOL								
DD-COMP(AR) 1092	BUDGET	ITEM JU	STIFICA	BUDGET ITEM JUSTIFICATION SHEET	IEET		<b>DATE FEBRUARY 1995</b>	<b>UARY 1995</b>
APPROPRIATION /BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE	NCLATURE			
Other Procurement: Army 3								
Other Support Equipment				Production	<b>Production Base Support</b>	••		
								(MA0450)
	FY94	FY95	PY96	FY97	FY98	FY99	FY00	FY01
QUANTITY				,				
COST (IN MILLIONS)	6.6	1.9	1.8	2.0	2.4	2.5	2.7	2.7

DESCRIPTION: This program sustains and improves our current capabilities through the purchase of equipment, instrumentation, Status Reporting System equipment, and Telemetry equipment used in production, production testing and depot level and facilities. Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test maintenance of other support equipment.

JUSTIFICATION: Funding in FY96 and FY97 will be used for replacement of equipment and instrumentation used in production testing at Yuma, Aberdeen Proving Grounds and the Cold Region Test Center, Ft. Greely, Alaska.

A detailed summary listing of projects is attached.

## S ARY LISTING OF PRODUCTION SUPPORT AND FACILITIES DJECTS APPROPRIATION: Other Procurement Army, Activity 3

**DATE: FEBRUARY 1995** 

TITLE: Production Base Support

PROJECT NUMBER	TITLE/LOCATION (DOLLA	FY94 DOLLARS IN MILLIONS)	FY95	FY96	FY97
Production Support and Eand instrumentation used	19X5063 Production Support and Equipment Replacement (PSR) of existing test equipment and instrumentation used to support, record and analyze performance data	0.705 pment	0.227	0.700	0.700

09X5068 Replacement of Au equipment, Test St to support data gat	09X5068 Replacement of Automotive Instrumentation equipment, Dynamic Test Support equipment, Test Status Reporting System Equipment, and Telemetry Equipment to support data gathering for test support.	1.401	0.201	0.835	0.770
09X5168 Modernization of e instrumentation us	09X5168  Modernization of existing obsolete, unrepairable test equipment and instrumentation used during production testing of Army materiel.	0.243	0.302		
09X5070 Replacement of exi data transmission, performance data	09X5070  Replacement of existing test equipment, instrumentation, provide telemetry data transmission, and telephoto lens for IR Imaging Camera to analyze performance data during cold weather testing of other support equipment.	0.300	0.199	0.300	0.521

0.725		
PSR, Dugway Proving Ground	Replacement, rehabilitation of existing, obsolete, unreliable or unrepairable	test equipment used for production testing of chemical defense materiel.

09X5163 Mod Aberdeen Proving Ground Modernization and upgrade of test instrumentation and test support equipment used for production testing of other support equipment.

0.944

0.800

## SUMMARY LISTING OF PRODUCTION SUPPORT AND FACILITIES PROJECTS

APPROPRIATION: Other Procurement Army, Activity 3

TITLE: Production Base Support DATE: FI

PROJECT NUMBER

DATE: FEBRUARY 1995

TITLE/LOCATION	FY94 (DOLLARS IN MILLIONS)	FY95	FY96	FY97
Hazardous Minimization Project Office Corps of Engineers	1.700			
Hazardous Minimization Project Office Secretary of Army	4.035			

1.835 1.873 9.909 PRODUCTION BASE SUPPORT TOTAL

1.991

P-1 Shopping List Item No.: 166

PAGE 3 OF 3

				UNCLASSIFIED					
REPORTS CONTROL SYMBOL							DATE	FEBRUARY 1995	
DD-COMP(AR)1092		لتو	<b>3UDGET ITEM JU:</b>	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	<b>E</b> T				
APPROPRIATION / BUDGET ACTIVITY	MIV			P-1 ITEM NOMENCIATURE SPECIAL EQUPMENT FOR USER TESTING	TURE For user testing				
OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT								(MA6700)	6
	FY 94	FY 95	FY 98	FY 97	FY 98	FY 99		FY 00	FYO1
QUANTITY									
COST (IN MILLIONS)	4.9	10.4	9.2	14.1	15.8	16.4	2	20.1	30.3
PERSONNELLAND BENEVER ELIMINAL FOR MA INPLIES TEST INSTRIMENTATION ARMY THREAT SIMILIATORS AND OPERATIONAL TEST AND EVALUATION SUSTAINING	DOVIDE ENVINE	OP MA IND SICED TE	ET INSTRIBUENTATI	INN ARMY THREATS	IMIII ATORS AND C	PERATIONAL TEST	T AND EVA	LUATION SUSTAIN	ING

INSTRUMENTATION. MAJOR USER TEST INSTRUMENTATION AND ARMY THREAT SIMULATORS SUPPORT FOR OPERATIONAL TESTING (OT) AND FORCE DEVELOPMENT TESTING AND DESCRIPTION: THIS PROGRAM PROVIDES FUNDING FOR MAJOR USER TEST INSTRUMENTATION, ARMY THREAT SIMULATORS, AND OP EXPERIMENTATION (FDTE).

PROCUREMENTS ARE NORMALLY FOR SMALL QUANTITIES, FREQUENTLY ONE ITEM. MAJOR USER TEST INSTRUMENTATION ACQUISITIONS ARE TYPICALLY PRODUCTION RUNS OF INSTRUMENTATION EQUIPMENT DEVELOPED UNDER RDT&E FUNDED CONTRACTS. TYPICAL ARMY THREAT SIMULATOR ACQUISTONS ARE COMMERCIAL END ITEMS. THESE ARE USED AS COMPONENTS IN THREAT SIMULATORS. WHEN AVAILABLE, FOREIGN/THREAT SYSTEMS AND END ITEMS ARE ACQUIRED.

OTRE SUSTAINING INSTRUMENTATION PROCURES LOW DOLLAR AUGMENTATIONS AND REPLACEMENTS FOR OBSOLETE OR TECHNICALLY DEFICIENT EQUIPMENT.

**JUSTIFICATION:** 

THE THREAT SIMULATOR EFFORT IN FY96-97 WILL CONTINUE PROCUREMENTS IN: THE XM15S THREAT AIR DEFENSE SYSTEM, XMTAR, THE TS DIAGNOSTIC/FMS, XMHKS/HJS/ADVANCED AIRBORNE JAMMER, THE XMC3S COMMAND AND CONTROL SYSTEMS, AND THE XM17S/XM18A/S THREAT AIR DEFENSE SYSTEMS. IN FY96 OPTEC'S OPERATIONAL TEST INSTRUMENTATION PROGRAM (OTIP) CONTINUES PROCUREMENT OF A TARGET INDENTIFICATION AND RTCA PAIRING SYSTEM FOR ARMORED VEHICLE COLLECTION SYSTEMS FOR HIGH PERFORMANCE AIRCRAFT AND OF A VIDEO IMAGING AND PROCESSING SYSTEM. IT CONTINUES PROCUREMENT OF FOREIGN ASSOCIATED END ITEMS OF WEAPON SYSTEMS THAT IS EFFECTIVE IN BATTTLEFIELD OBSCURANT: SMOKE, DUST, AND FOG. IN FY97 OPTEC'S OTIP COMPLETES THE PROCUREMENT OF NON-INTRUSIVE DATA EQUIPMENT TO SUPPORT REALISTIC OPERATIONAL TESTING.

## MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS)

THE MAIS FY97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACRITY.

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(MA6700) FEBRUARY 199 FY 00 DATE FY 99 <u>ج</u> FY 98 THREAT SIMULATORS - SPECIAL 3.2 **EQUIPMENT FOR USER TEST** P-1 ITEM NOMENCLATURE **BUDGET ITEM JUSTIFICATION SHEET** FY 97 3.3 FY 96 5.9 FY 95 6.8 FY 94 APPROPRIATION / BUDGET ACTIVITY **OTHER PROCUREMENT: ARMY 3** OTHER SUPPORT EQUIPMENT REPORTS CONTROL SYMBOL **COST (IN MILLIONS)** DD-COMP(AR)1092

QUANTITY

FY 01

COMMANCHE (RAH66) AND AIRCRAFT SURVIVABILITY EQUIPMENT (ASE) WARNING RECEIVER SYSTEMS. THREAT SIMULATOR DIAGNOSTIC EQUIPMENT SUPPORTS VALIDATION, OPERATIONAL DEVELOPMENTAL ITEMS (NDI) TO THE MAXIMUM EXTENT POSSIBLE (FOR EXAMPLE, CHASSIS, SUBSYSTEMS, COMMERCIAL EQUIPMENT, OR ACTUAL THREAT WEAPONS) WHICH INTEGRATES INTO A THREAT SIMULATION DESIGN. THE HIGH PROBABILITY OF ACQUIRING NDI EQUIPMENT HAS LED TO PROGRAMMING OF PROCUREMENT FUNDS TO RESOURCE THIS PORTION OF THE DESCRIPTION: THE ACQUISITION STRATEGY USED BY THE ARMY THREAT SIMULATOR PROGRAM IS TO PROCURE ACTUAL FOREIGN HARDWARE. THE SECOND OPTION IS TO USE NON PROJECT EQUIPMENT WHICH SUPPORTS US ARMY MAJOR SYSTEM OPERATIONAL TESTING SUCH AS THE J-TIDS, MLRS SADARM V, AVENGER, APACHE LONGBOW, OH-58 ARMED, PERFORMANCE MONITORING, CALIBRATION, AND MAINTENANCE.

SIMULATOR PROCUREMENT IS RESPONSIVE TO OFFICE OF THE SECRETARY OF DEFENSE AND GENERAL ACCOUNTING OFFICE CONCERNS THAT THE ARMY CONDUCT OPERATIONAL TESTING IN JUSTIFICATION: THE ARMY THREAT SIMULATOR PROGRAM PROCURES REALISTIC THREAT SIMULATORS OR STAND ALONE COMPONENTS OF SIMULATORS FOR ARMY TEST ORGANIZATIONS. A REALISTIC THREAT ENVIRONMENT.

NDI PROCESSING STATION FOR INTEGRATION OF THE THREAT SIMULATOR NETWORK (FY96) AND THE VIRTUAL ENVIRONMENT INTERFACE UNIT FOR THE REGIMENTAL ELEMENTS (FY97). THE ACTUAL AND SIMULATED SYSTEMS IN DEVELOPMENT (FY96-97). THE XMHKS/HJS/AAJ FUNDING PROCURES AN ACTUAL ELECTRONICS PACKAGE (FY97). THE XMC3 FUNDING PROCURES THE THE EFFORT IN FY96-97 WILL CONTINUE PROCUREMENT IN THE FOLLOWING AREAS: XM15S, XMTAR, TS DIAGNOSTIC/FMS, XMHKS/HJS/ADVANCE AIRBORNE JAMMER(AAJ), XMC3S, XM17S, AND XM18A/S. THE XM15S FUNDING PROCURES NDI NECESSARY FOR SUSTAINMENT (FY97). THE XMTAR FUNDING PROCURES THE UPGRADED SOFTWARE PACKAGE FROM THE ORIGINAL EQUIPMENT MANUFACTURE (FY96). THE TS DIAGNOSTICS/CALIBRATION PROCURES THE VALIDATION, OPERATIONAL PERFORMANCE MONITOR CALIBRATION, AND MAINTENANCE OF ALL XM17S FUNDING PROCURES AN ACTUAL ANTENNA (FY96). THE XM18A/S FUNDING PROCURES NDI SCORING PACKAGES (FY96).

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		DD Form 2454, JUL 88	

WEAPON SYSTEM COST ANALYSIS	YSIS		A. Appropriation/Budget	dget	B. WEAPON		C. MANUFACTURER NAME		D. DATE
EXHIBIT (P-5)			Activity Title/No.		MODEL/SERIES/POPULAR	PULAR	PLANT CITY/STATE LOCATION	LOCATION	Month/Year
			OPA/3- Threat Simu	lators	NAME-THREAT SIMULATORS	VLATORS	VARIOUS		FEBRUARY 1995
Weapon System Cost Elements	Ident. Code	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Oty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
ARMY THREAT SIMULATORS	4								
A. XM15S		745	1/745	554	1/554			1000	1/1000
B. XMTAR		1275	1/1275			200	1/500		
C. XM43A/S		200	1/500	113	2/226				
D. TS DIAGNOSTIC				382	1/382	912	1/912	283	1/283
E. ADVANCED AIRBORNE JAMMER				1250	2/2500			1000	1/1000
F. XMC3S				420	1/420	200	1/500	1000	1/1000
G. XM17S				1914	1/1914	1954	1/1954		
H. XM18S				200	4/800	200	4/2000		
						- v zan			
						<del></del>			
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TOTAL			2520		9629		5866		3283

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BUDGE	BUDGET PROCUREMENT HISTORY AND	HISTORY AN	O PLANNING EXHIBIT	XHIBIL	3			A. DATE	FEBRUARY 1996	1996
B. APPROPRIATION/BUDGET ACTIVITY	DGET ACTIVITY				C. P-1 ITEN	C. P-1 ITEM NOMENCLATURE	C. P-1 ITEM NOMENCLATURE			
Other Procurement Army/3 - Tilleat Simulators	S - I fileat Siminatura	TOAUTUACT	CONTRACTER	70 AVA	DATE OF 1		TINI I	SDECS	SPEC	IF YES
Cost Element FISCAL YEAR	AND LOCATION	METHOD	BY			QUANTITY	COST	AVAILABLE	REQ'D	WHEN
XM15 FY94 A. Acq Ant & Computer	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	-	745000		O <sub>Z</sub>	
FY95 A. Acq Ant Documents	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Apr-95	Sep-95		554000	YES	S S	
FY97 A. NDI Maint Equipment	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Oct-96	May-97	<del>-</del>	1000000	YES	ON	
XMTAR FY94 B. Target Tracking Rdr	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	7-	1275000	YES	O Z	•
FY96 B. Software Modification	Ericsson Sweden	CPFF/SS	MICOM, RSA, AL	Feb-96	Sep-96	-	200000	YES	O <sub>Z</sub>	
XM43A/S FY94 C. XM43A/S Transmitter	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Jun-94	Sep-94	-	200000	YES	Q 2	
FY95 C. Night Vision Camera	GTRI Atlanta, GA	CPFF/SS	MICOM, RSA, AL	Feb-95	Jun-95	2	113000	YES	ON.	
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Exhibit P-5A Procurement History and Planning

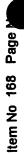
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BODB	BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	IT HISTORY A	ND PLANNING	EXHIBIT	(P-5A)			A. DATE		
					,			_	FEBRUARY 1995	1996
B. APPROPRIATION	B. APPROPRIATION/BUDGET ACTIVITY	<b>\</b>			C. P-1 ITE	C. P-1 ITEM NOMENCLATURE	LATURE	:		
Other Procurement A	Other Procurement Army/3 - I nreat Simulators	ators			ISMO - Sp	ISMO - Special Eqmt for User Testing	TOT USEL IX	esting		
Cost Element/	CONTRACTOR	1	CONTRACTED	AWARD	ш		TINO	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	BY	DATE		QUANTITY	COST	AVAILABLE	REV	WHEN
		& TYPE			DELIVERY			NOW	REQ'D	AVAILABLE
TS Diagnostic/ FMS										
FY95 D. Diagnostics/ Calibration Spt Testing	NRC Huntsville, AL	CPFF/LC	MICOM, RSA, AL	Feb-95	Sep-95	<del>-</del>	382,000	YES	O	
FY96 D. Diagnostics/ Calibration Spt Testing	Undetermined	CPFF/LC	MICOM, RSA, AL	Feb-96	Sep-96	~	912,000	YES	<u>Q</u>	
FY97 D. Diagnostics Calibration Spt Testing	Undetermined	CPFF/LC	MICOM, RSA, AL	Feb-97	Sep-97	_	283,000	YES	O Z	•

The Calibration equipment purchased each year varies as to type, thus, resulting in different unit costs.

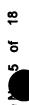
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BUDG	BUDGET PROCUREMENT HISTORY AND PLANNING E	IT HISTORY A	IND PLANNING	E	(P-5A)			A. DATE		
									FEBRUARY 1995	1995
B. APPROPRIATION	B. APPROPRIATION/BUDGET ACTIVITY	_			C. P-1 ITEM NOMENCLATURE	IOMENCI	ATURE			
Other Procurement /	Other Procurement Army/3 - Threat Simulators	ators			TSMO - Special Eqmt for User Testing	al Eqmt fo	or User Te	sting		
Cost Flement/	CONTRACTOR	CONTRACT	CONTRACTED AWARD DATE OF	AWARD	DATE OF		TINO	SPECS	SPFC	S A ES

BUDG	BUDGET PROCUREMENT HISTORY AND	IT HISTORY A	ND PLANNING E		IT (P-5A)			A. DATE	FEBRUARY 1995	1885
B. APPROPRIATION	B. APPROPRIATION/BUDGET ACTIVITY	<b>→</b>			C. P-1 ITE	C. P-1 ITEM NOMENCLATURE	LATURE			
Other Procurement /	Other Procurement Army/3 - Threat Simulators				TSMO - Sp	TSMO - Special Eqmt for User Testing	tor User Te	sting		
Cost Element/	CONTRACTOR	_	CONTRACTED	AWARD	11		UNIT	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD & TYPE	β	DATE	FIRST DELIVERY	QUANTITY	COST	AVAILABLE NOW	REV REQ'D	WHEN AVAILABLE
XMHKS/HJS/AAJ FY95										
E. Actual Aircraft MI-17	Maverick Enterprise, AL	FP/SS	MICOM, RSA, AL	Mar-95	Sep-95	8	1250000	YES	<u>Q</u>	
FY97										
E. Airbome Electronics Equipment	Undetermined	FP/SS	MICOM, RSA, AL	Feb-97	Sep-97	<del>-</del>	1000000	YES	<u>Q</u>	
XMC3S EVOS										
F. Mobile Threat System Cmd Station Shelter	GTE Mt View, CA	CPFF/SS	MICOM, RSA, AL	Feb-95	Sep-95	<b>~</b>	420000	YES	O <sub>N</sub>	
FY98										
F. Off the self Processing	GTE Mt View, CA	CPFF/SS	MICOM, RSA	Oct-95	May-96	<del>-</del>	200000	YES	9	
Station for Integ Threat Sim Net			ł							
FY97										
F. Virtual Environment Interface Units	GTE MT. View, CA	CPFF/SS	MICOM, RSA AL	Oct-96	May-97	-	1000000	YES	Q Q	

DD Form 2446-1, JUL 87 Previous editions are obsolete

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BODE	BUDGET PROCUREMENT HISTORY AN	<b>IT HISTORY A</b>	ND PLANNING EXHIBIT (P-5A)	EXHIBIT	(P-5A)			A. DATE		
									FEBRUARY 1995	95
B. APPROPRIATION	B. APPROPRIATION/BUDGET ACTIVITY	:			C. P-1 ITEM NOMENCLATURE	NOMENC	LATURE			
Omer Procurement A	Omer Procurement Army/3 - I nreat Simulator			7	ISMO - Special Eqmi 101 User Tesung	ecial Eqmi	or User Tex	guns		
Cost Element/	CONTRACTOR	CONTRACT	CONTRACTED	AWARD	ш		E S	SPECS	SPEC	IF YES,
FISCAL YEAR	AND LOCATION	METHOD	β	DATE		QUANTITY	COST	AVAILABLE	REV	WHEN
		Q ITE			DELIVERY			NOW	אבק נו	AVAILABLE
XM17S FY95					!					
G. XM17S	GTRI	CPFF/SS	MICOM, RSA,	Apr-95	Sep-95	-	1,914,000	YES	2	
Vehicle *	Atlanta, GA		AL							
FY96							,			
G. XM17S	GTRI	CPFF/SS	MICOM, RSA.	Oct-95	May-96	_	1,954,000	YES	8	
Antenna *	Atlanta, GA		AL .		•					
S&LWX EV0E							•			
H XM18S	DBA	T&M/SS	MICOM, RSA.	Feb-95	Sep-95	7	200,000	YES	2	
Seeker	Melboum, FL		AL							
										•
FY96										
H. XM18S	DBA									
NDI scoring	Melbourne, FL	T&M/SS	MICOM, RSA,	Oct-95	May-96	4	200,000	YES	<u>2</u>	
Equipment			AL.							

D. REMARKSIncludes technical manuals

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REPORTS CONTROL SYMBOL	VTROL :	SYMBOL											2	DUCT	PRODUCTION SCHEDULE	HEDÜ	<u>u</u>												<u> </u>	2 M		
DU-CUMPANITUSZ APPROPRIATION / BUDGET ACTIVITY	NO NO	DGET AC	<b>VIII</b>										-	٦	P-1 ITEM NOMENCLATURE	NOME	GLATI	<b>w</b>														
OTHER PROCUREMENT: ARMY 3		IT: ARMY	ęn											<u> </u>	INNEAL SIMOLATURS - SPECIAL EQUIPMENT FOR USER TEST	IT FOR	USER 1	STECIAL EST		•	_	_								Š	TMA 87001	
OTHER SUPPORT EQUIPMENT		CIPMENT CIPMENT		VITTURE AND LANGUAGE					1	FISCAL VEAR 97	189			1		-	FISCAL YEAR 98	EAR 98		1				۴	FISCAL YEAR 99	EAR 99						4
FACTITY B	-		Ē				ACCEPT	ž			L					1	-	$\vdash$														~
		F .	2 8	E 8	E 1	E 1	£ 5	2 5			CALE	CALENDAR YEAR 97	AR 97					<u>.</u>	CALENDAR YEAR 96	AR YEA	<b>8</b>					ن 	CALENDAR YEAR 99	IR YEAR	<b>8</b>			<b>←</b> _
<b>.</b>	= >				B 	B	5 5	100		NOV DEC	OCT NOV DEC JAN FEB MAN		APR MAY JUN		JUL AUG SEP OCT NOV DEC	36 434	T 180V		JAN FEB MAR APR MAY JUN JA	AP AP	Î MAY	릙	2	130 438	T NOV DEC	EC JAN	臣	MAR APR	MAY JUN	37	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2
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	2						1		8	OCT NOV DEC	JAM FEB MA	WW.	IN APR SEP	¥5,	JUL AUG	AUG SEP OCT NOV DEC	T MOV	DEC JA	JAN FEB	MAR AP	APR MAY	MAY JUM J.	JA AUG	**	OCT NOV	NOV DEC JAN	H FE8	FEB MAR APR MAY	T IMAY	JUN JUL AUG	8	<b>B</b>
					$\vdash$							Γ			윤	PROCUREMENT LEAD TIME	TT LEAD )	3	-		<u> </u>	IRKS:										
FACEUTY		MANUFAC	MANUFACTURERS MANE	*			10E	PRODUCTION RATES	175		MONTHS TO	2 2		-	Arram 15 AD TREE	<u> </u>			_		AAM	JUS ITEN	REGUA	VARIOUS ITEMS REGUME VANOUS ADAMH AND MANUFACTURING THÆS	US ADMIL	)	MUFACTI	ET SHIRE	<b>2</b>			
 B		•	<b>B</b> 10CA HOR				-	3	F	MAXIMUM	AFTER D DAY	DAT		<b>180</b>	-	т-	MANUFACTURING	CTURING		TOTAL												
8	A PE	GTRL ATLANTA, BA			T		_							1001	-	10CT	=	¥	¥	AFTER 1 OCT												
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									Ξ	P.1 SHOPPING LIST	16 LIST				i							UNCLA	UNCLASSIFIED				ě		2	<b>5</b>	7	
2		UU FORM 2445, JUL 6/	2						•	ſ			,					_								_				EVUIDIT D 21	16.0	

				UNG				
REPORTS CONTROL SYMBOL							DATE FEBRUARY 1995	1995
DD-COMP(AR)1092		E	SUDGET ITEM JU	<b>BUDGET ITEM JUSTIFICATION SHEET</b>	H			
APPROPRIATION / BUDGET ACTIVITY	ΠY			P-1 ITEM NOMENCLATURE	ATURE			
				MOBILE AUTOMATE	<b>MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS)</b>	IN SUITE (MAIS)		
OTHER PROCUREMENT: ARMY 3								
OTHER SUPPORT EQUIPMENT								(MA6700)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (IN MILLIONS)	,			0.6	10.2	10.9	13 0	20.2

COLLECTION AND ANALYSIS, AND REAL TIME CASUALTY ASSESSMENT. TEST DATA IS COLLECTED WHILE MONITORING, CONTROLLING, AND RECORDING FORCE-ON-FORCE ENGAGEMENTS IN A BATTLEFIELD ENVIRONMENT. MAIS WILL SUPPORT: CONDUCT OF ARMYJOSD OPERATIONAL FORCE DEVELOPMENT TESTS, EVALUATIONS ON CURRENT AND FUTURE TACTICAL EQUIPMENT, DESCRIPTION: THE MOBILE AUTOMATED INSTRUMENTATION SUITE (MAIS) WHICH IS AN INSTRUMENTATION SYSTEM CAPABLE OF REAL TIME MONITORING FOR THE PURPOSE OF DATA ASSESSMENT OF CHANGES TO DOCTRINE, ORGANIZATION, AND TRAINING METHODS.

JUSTIFICATION: THE MAIS FY 97 PROCUREMENT BUYS 52 PLAYER UNITS AND ONE COMMAND COMMUNICATION AND CONTROL (C3) CENTRAL INSTRUMENTATION FACILITY. THE MAIS WILL PROVIDE THE CAPABILITY TO MEET THE TEST AND EVALUATION NEEDS FOR FUTURE HARDWARE, TACTICS, AND ORGANIZATIONS IN AN OPERATIONAL ENVIRONMENT. THE PLAYER UNITS WILL BE MOUNTED ON GROUND VEHICLES, FIXED WING AIRCRAFT, HELICOPTERS, CREW SERVED WEAPONS AND INDIVIDUAL SOLDIERS TO TEST EMERGING AND UPGRADES TO WEAPON SYSTEMS IN A COMBAT REALISTIC FIELD ENVIRONMENT. Pages

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Page

UNCLASSIFIED

OF 18

PAGE NO 11

**ITEM NO 168** 

DD Form 2454, JUL 88

P-1 SHOPPING LIST

**EXHIBIT P-40** 

WEAPON SYSTEM COST ANALYSIS	S		A. Appropriation/Budget	udget	B. WEAPON		C. MANUFACTURER NAME		O. DATE
EXHIBIT (P-5)			Activity Title/No. OPA/3	OPA/3	MAIS		LORAL		FEBRUARY 1995
Page 1 of 1			Other Support Equipment	Ē	(MA6700)		Akron, OH		
Weapon System Cost Elements	Ident. Code	FY 94 Unit Cost	Oty Total Cost	FY 95	Qty Total Cost	FY 96	Oty Total Coet	FY 97	Oty Total Cart
A4.116		_			Teon more		10001001		1001
A. MAIS C3 Central Instrumentation Facility	മ							4500000	1/4500
B. MAIS Ground Vehicle Player Unit								84000	52/4368
C. Engineering Support							•		67
D. Administration									65
	•								
		1		! ! !					
TOTAL									0006

	FEBRUARY 1996	(MA6700)	IF YES, WHEN	AVAILABLE	Dec-96	Dec-96	
	EBRUA		SPEC REV	REQ'D	YES	YES	
A. DATE		-	SPECS VAILABL	MOM	ON	Q 2	
		ATURE	UNIT		4,500,000	84,000	
		NOMENCL	QUANTITY			52	
2		C. P-1 ITEM NOMENCLATURE MAIS	DATE OF FIRST	DELIVERY	Jan-99	May-98	
IT (P-5A)			AWARD DATE		Feb-97	Feb-97	
BUDGET PROCUREMENT HISTORY AND PLANNING E			CONTRACTED BY		Naval Air Warfare Center, Orlando, FL	Naval Air Warfare Center, Orlando, FL	
HISTORY A	-	it	CONTRACT METHOD	& TYPE	•NOILGO	OPTION*	
ROCUREMENT		TIVITY Support Equipmen	CONTRACTOR AND LOCATION		LORAL, AKRON, OH	LORAL, AKRON, OH	·
BUDGET PI		B. APPROPRIATION/BUDGET ACTIVITY Other Procurement Army: 3 - Other Support Equipment	Cost Element/ FISCAL YEAR		1. MUTI A. C3 Central Instrumentation Facility/FY97	B. Ground Vehicle Player Unit /FY97	

D. REMARKS

\* Exercise production option to the Research and Development contract which was competitively awarded June 1991.

Page 1 of 1 Pages Exhibit P-5A Procurement History and Planning P-1 SHOPPING LIST

.8. 300C	CODE "B" ITEM DESCRIPTION	Z	DATE FEBRUARY 1995			<b>E</b>	REPORT CONTROL SYMBOL Do-Comp(AR) 1092	L SYMBOL 1092
APPROPRIATION / BUDGET ACTIVITY OTHER PROCUREMENT: ARMY 3 OTHER SUPPORT EQUIPMENT	<b>≻</b>		P-1 ITEM NOMENCLATURE MAIS					MARZOU
CURRENT DEVELOPMENT AND TEST STATUS	T STATUS							
				SCHEDULE DATE				
		CURRENT	LAST REPORTED		REASON	REASON FOR DELAY		
DEV TEST & EVAL (DT&E) INITIAL OPER TEST & EVAL (10T&E) MILESTONE III	PLAN PLAN PLAN	Jun-96 Oct-96 Dec-96	Jun-96 Oct-96 Dec-96					
AVAIL DATE OF TECH DATA PKG (T OR PERFORMANCE SPECIFICATIONS	ONS	Dec-96	Dec-96					
ESTIMATED DATE OF APPROVAL FOR SERVICE USE		Jan 97						
EQUIPMENT ITEM(S) TO BE REPLACED NONE	9							
EXTENT OF IMPROVEMENT OVER ITEM(S) EQUIPMENT TO BE REPLACED	TEM(S) EQUIPMENT	TO BE REPLACED						
DEVELOPMENT CONTRACT INFORMATION	IATION		RDT&E FUNDING PROFILE (\$ IN MILLIONS)	lions)				
CONTRACTOR NAME	PLA	PLANT LOCATION	COMPONENT	THRU PYR	CY 95	BY1 96	BY2 97	BEYOND BY'S
LORAL SYSTEMS	AKRON	OHIO		68.800	20.394	23.680	5.077	CONTINUING
TOTAL RDT&E FUNDING				68.800	20.394	23.680	5.077	CONTINUING
RELATED PROGRAMS/PE: P.E. 0604759 D986	4759 0986						·	
DD Form 2443 .1111 88		P-1 SHOPPING LIST				Page	1 of 1	Pages
	ITEM NO 168	PAGE NO 14	14 OF 18				EXHIBIT P.19	

REPORTS CONTROL SYMBOL DD-COMPLARI1092 APPROPRIATION / BUDGET ACTIVITY	NTTROL 111092	SYMBO	_													3															-		
DD-COMPLAR APPROPRIAT	11092																													DATE	18	FEBRUARY 1895	
APPROPRIAT													£	DUCT	JS NO.	PRODUCTION SCHEDULE	<b>9</b>																
	NO.	UDGETA													·1 ITEM	NOMEN	P-1 ITEM NOMENCLATURE	L.															
															MAJORI	USER TE	MAJOR USER TEST INSTRUMENTATION (MUTT)	ROMEN	LATION														
OTHER PROCUREMENT: ARMY 3	CREM	ENT: AN	£ 1																											2	10010491		
OTHER SUPPORT EQUIPMENT		DOIPMEN							200	NEW 14	2			$\dashv$		۴	CIECAL VEAD OF	40 00						Ě	EICLAI VEAD 00	E40 98		Ì			3	֓֡֡֡֡֡֡֡֡֡֡֡֡֡	
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FACILITY		MAMUF.	MANUFACTURERS MANE	HAME				PRODUCTION NATES			DI SHIJAGO IO	2 :											=	1001	1001			F	蓋	<u>,</u>	75	AFTER 1 OCT	=
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P3 ¥4	TRAL ST	LORAL SYSTEMS, AKRON, OHIO	AKRON	OHIO										1001	$\dashv$	10CT	TIME		AFTER 1 OCT	1961	E ALE		_	_	*				=		2	_	
	PRAL ST	LORAL SYSTEMS, AKRON, OHIO	AKRON	물	-		<u> </u>	60		14			BMTTAL								_	1	1	1	1	4	1	1	4		4		
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								TEMMO	- 1	168	PAGE NO	-	2	5				4								$\dashv$				נאשם	CAMIBIL F.21		

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REPORTS CONTROL SYMBOL

**FEBRUARY 1995** 

DATE

FY 01 (MA6700) FY 00 FY 99 FY 98 OPTEC - SPECIAL EQUIPMENT P-1 ITEM NOMENCLATURE **BUDGET ITEM JUSTIFICATION SHEET FOR USER TEST** FY 97 FY 96 FY 95 FY 94 APPROPRIATION / BUDGET ACTIVITY **OTHER PROCUREMENT: ARMY 3** OTHER SUPPORT EQUIPMENT **COST (IN MILLIONS)** DD-COMP(AR)1092 **QUANTITY** 

ADVANCES INTO OPTEC INSTRUMENTATION. IT SUPPORTS REAL-TIME CASUALTY ASSESSMENT (RTCA) PROVIDING REALISTIC SIMULATED ATTRITION OF FORCES. FUNDING PROVIDES A TEST REQUIRED BY THE DOD AND CONGRESS. IT MODERNIZES OPTEC'S INSTRUMENTATION CAPABILITY AND DEVELOPS NON-MAJOR INSTRUMENTATION THAT IS NON-INTRUSIVE, MORE RELIABLE, DESCRIPTION: TO REMAIN ABREAST OF NEW WEAPONS AND COMMUNICATIONS SYSTEMS, THE TESTER REQUIRES ADVANCED TECHNOLOGY INSERTION INTO INSTRUMENTATION PRIOR TO THE SYSTEM TESTS. THIS PROJECT PROVIDES A COST EFFECTIVE DATA COLLECTION, TELEMETRY, AND PROCESSING CAPABIITY TO CONDUCT CREDIBLE AND ROBUST OPEATIONAL TEST AS AND PROVIDES NEAR REALTIME ACCESS OF DATA FOR TEST CONTROL AND ANALYSIS BY INTEGRATING COMBAT SIMULATORS INTO OPERATIONAL TESTS AND BY INSERTING TECHNOLOGY CAPABILITY WHICH REDUIRES LESS MANPOWER TO OPERATE AS NECESSITATED BY OPTEC DOWNSIZING OF PERSONNEL.

JUSTIFICATION: FUNDING WILL PROVIDE OPTEC'S ABILITY TO ASSESS PERFORMANCE OF THE LONGBOW APACHE HELICOPTER, SPECIAL OPERATIONS AIRCRAFT, ARMY TACTICAL COMMAND AND CONTROL SYSTEMS, AND OTHER HIGH PRIORITY WEAPONS SYSTEMS AGAINST A CREDIBLE THREAT ON A REALISTIC BATTLEFIELD.

CAPABILITY TO CAPTURE DATA AT REMOTE, MOBILE, TACTICAL FIELD LOCATIONS, AND ELECTRONICALLY TRANSMIT THE DATA TO RECEIVING, CONTROL, AND EVALUATION STATIONS AT THE THE INCREASED FUNDING LEVEL FOR OPTEC'S LIVE OPERATIONS TEST INSTRUMENTATION PROGRAM (OTIP) STARTING IN FY 1996 BEGINS PROCUREMENT OF A TARGET IDENTIFICATION AND RTCA PAIRING SYSTEM FOR DISMOUNTED TROOPS AND CREW-SERVED WEAPONS ARE EFFECTIVE IN BATTLEFIELD OBSCURANTS: SMOKE, DUST, AND FOG. IT CONTINUES THE PROCUREMENT OF NON-INTRUSIVE DATA COLLECTION AND TELEMETRY SYSTEMS INITIATED IN FY 1995. THIS IS ESSENTIAL TO ENSURE COMMAND AND CONTROL AND SYSTEM PERFORMANCE MEASURES RESPECTIVE TEST DIRECTORATES. THESE DIRECTORATES ARE LOCATED AT FORT BLISS, FORT HUACHUCA, AND FORT SILL. THIS FUNDING ALSO COMPLETES PROCUREMENT OF OPTEC'S OF EFFECTIVENESS (MOEs) CAN BE EVALUATED WITH MEASURABLE, OBJECTIVE, AND RESPONSIVE ATTRIBUTES AS OPPOSED TO SUBJECTIVE ESTIMAES. IT PROVIDES AN INSTRUMENTED INTERIM RTCA CAPABILITY THAT SUPPORTS THE BATTLEFIELD COMBAT IDENTIFICATION SYSTEM (BCIS), ARMORED GUN SYSTEM (AGS), BRADLEY FIGHTING VEHICLE SYSTEM (BFVS) AND **OTHER FORCE-ON-FORCE TESTS.** 

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DD Form 2454, JUL 88				UNCLASSIFIED					
	ITEM NO 168	PAGE NO 16	OF 18			EXHI	EXHIBIT P-40		-
									ı

March   Marc	WEAPON SYSTEM COST ANALYSIS			<ul> <li>Appropriation/Budget</li> </ul>		B. WEAPON		C. MANUFACTURER NAME	R NAME	D. DATE
Hourt	EXHIBIT (P-5)			activity Title/No.	2	ODEL/SERIES/PO	PULAR	PLANT CITY/STATE	COCATION	Month/Year
Code   Code	Page 1 of 2			PA3/Other Spt Equi		AME: OPTEC-SPE		Various		FEBRUARY 1995
A   150000   4/500   500000   1/1948	Weapon System Cost Elements	Ident. Code	FY94 Unit Cost	Qty Total Cost	FY95 Unit Cost	Qty Total Cost	FY96 Unit Cost	Qty Total Cost	FY97 Unit Cost	Qty Total Cost
A	K-Band TEC Obscuration Paring Sys (K-Tops)	∢	150000	4/600	200000	2/1000	1949000	1/1949		
A 200000 11/200 A 60000 11/60 100000 11/100 91250 4/3955 75000 A 150000 11/60 11/100 91250 4/3955 75000 A 167000 11/167 A 167000 11/167 A 167000 11/167 A 167000 11/167 A 167000 11/167 A 4 473000 11/167 A 4 473000 11/167 A 4 473000 11/167	Range Measurement Sys (RMS) A/B/D Stations	«	40000	20/800						
A   200000   11200   11100   11200   11400   11200   11400	Low Light Documentary Video&PhotographySys	<b>«</b>	75000	1175						
Processor   A   100000   11100   11100   11100   11100   11100   11250   4/365   75000   11100   11100   11100   11100   11100   11100   11100   11100   11100   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   1111000   11110000   11110000   11110000   11110000   11110000   11110000   11110000   11110000   11110000   111100000   111100000   111100000   11110000   111100000   111100000   1111000000   111100000   1111	GPS Tracking System	4	200000	1/200						
Processor	Integrated Log Sys Dig Recording&Dis Sys(ILSDRD	<b>V</b>	100000	1/100						
blifty A 150000 11150  A 81000 1181  A 167000 11167  A 167000 110000  A 167000 110000  A 167000 110000  A A 167000 110000  A A 167000 110000  A A 167000 110000  A A 167000 110000  B A 167000 1100000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 110000  B A 167000 1100000  B A 167000 1100000  B A 167000 11000000000000000000000000000000	Video Acq & Image Processor Sys	∢	00009	1/60	100000	1/100	91250		75000	4/300
bility A 167000 1/167  A 167000 1/167  A 167000 1/167  A 167000 157000  A 167000 157000  Ban, HF A 66000  Banna, HF A 66000  A 73000  A 73000	Electronic Warfare Mon Fac Signal Processor	∢	150000	1/150			·			
A 167000 1/167 700000 Acchine A 140000 Acchine A 140000 Acchine A 157000 Acchine A 157000 Acchine A A 157000 Acchine A A 157000 Acchine A A 157000 Acchine A A A A A A A A A A A A A A A A A A A	AI/EWTS Control Monitor System	∢	81000	1/81						
A 140000 A 120000 A 157000 A 60000 A 66000 A 66000	Threat Helicopter Engines	∢	167000	1/167						•
A										
A 140000 A A 157000 157000 a, HF A 60000 t Telemetry Sys A 473000	Mobile Tech (MTEC) RTCA Capability	∢			700000	1/700				
A 140000 A 120000 a, HF A 60000 t Telemetry Sys A 473000										
A 157000  Ba, HF A 60000  1 Telemetry Sys A 473000	Plastic Injection Molding Machine	∢			140000	1/140		-		
IB, HF       A       157000         IB, HF       A       60000         Sor       A       66000         I Telemetry Sys       A       473000	Distributed Test Support System	∢			120000	1/120				
A 60000 A 66000	Threat Simulator Engine (XM-42A)	∢			157000	1/157				
A 600000 A 66000										
A 66000 66000 A 73000										
elemetry Sys A 473000	Vertical incidence Skywave Antenna, HF	∢			00009	1/60				
A 473000	Automatic Drafting System Processor	∢			00099	1/66				
	GPS Interface, Reference Revor, & Telemetry Sys	∢			473000	1/473				

WEAPON STEM COST ANALYSIS EXHIBIT (	Ysis	and the second s	A. Appropriation/Budget Activity Title/No. OPA3/Other SM Fouin		B. WEAPON MODEL/SERIES/POPULAR NAME OPTEC-SoFauloUserTst	PULAR	C. MANUFACTURER NAME PLANT CITY/STATE LOCATION Various	NAME LOCATION	D. DATE Month FEBRUARY 1996
motor of the state	Ident	EVOA	Š	FV95	25	FY96	300	FY97	δÇ
Weapon System Cost Elements	Code	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
OTSA Radar Signal Generator	V					155000	11155		
OTSA Optical Work Station	¥					100000	1/100		
OTSA Foreign Equipment	₩					190000	11190	658000	1/658
Inertial GPS Intergration	∢			161666	3/485	00006	6/540	94333	9/849
OTEMS	<b>∢</b>	1050	20/21						
Processor Motor Boards	∢	7800	14/109						
Land Server Upgrade	∢	45000	1145						,
AI/EWTS UPGRADÉS	∢			115000	3/345				
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	<u>,</u>								
TOTAL	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1	2408		3646		3299		1807

Reports Control Symbol DD-COMP (AR) 1092		BUDGET	BUDGET ITEM JUSTIFICATION SHEET	ICATION SHE	T:		February 1995	10
Appropriation/Budget Activity: Other Procurement, Army Activity 3, Other Support Equipment	vity:Other Pro equipment	ocurement, Arı	my	P-1 Item No OPA Initial (	P-1 Item Nomenclature: OPA Initial Spares (MY0035)	35)		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (MILLIONS)	0	68.0	0	0	0	0	0	0
DESCRIPTION:	Provides for p	Provides for procurement of spares to support initial fielding of new or modified end items.	f spares to su	pport initial fie	iding of new	or modified en	nd items.	
JUSTIFICATION:	The funds in this acco Management, Army (S are normally required	this account p Army (SMA) r required in the	unt procure depot level reparable (DLRs) secondary items from the MA) revolving fund (formerly Army Stock Fund). To provide initial sin the same year that end items are fielded. Initial spares breakout:	evel reparable (formerly Arm at end items a	(DLRs) secolly Stock Fund re fielded. Ini	ndary Items fr. ). To provide tial spares bre	The funds in this account procure depot level reparable (DLRs) secondary items from the Supply Management, Army (SMA) revolving fund (formerly Army Stock Fund).  To provide initial support, funds are normally required in the same year that end items are fielded.  Initial spares breakout:	funds
			FY 94	FY 95	FY 96	FY 97		
FAAD C2			0.0	1.5	0.0	0.0	_	
csscs			0.0	1.4	0.0			
AFATDS			0.0	1.9	0.0			
FA C2 SYS AFATDS			0.0	<b>9.</b> 0	0.0		_	
IMETS (TIARA)			0.0	0.7	0.0			
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)   SINGGARS	8F1 SYS (D155	) (HAKA)	0.0	4. C	0.0	0.0		
DEFENSE SATELLITE COMMUNICATIONS	MMUNICATION	S	0.0	9.6	0.0			
NAVSTAR GLOBAL COMMUNICATIONS	<b>AUNICATIONS</b>		0.0	0.4	0.0			
TRI-TAC			0.0	10.3	0.0			
ARMY DATA DISTRIBUTION SYSTEM (ADDS)	ON SYSTEM (AE	SOC)	0.0	0.5	0.0			
TACSATCOM			0.0	2.2	0.0			•
JOINT STARS (ARMY) (TIARA)	ARA)		0.0	3.1	0.0	0.0		
NIGHT VISION DEVICES			0.0	2.3	0.0	0.0		
P-1 SHOPPING LIST ITEM NO.:	NO.: 170			PAGE NO.: 1	of 3		Exhibit P-40	
					;			

Reports Control Symbol DD-COMP (AR) 1092		BUDGET	ITEM JUSTIFI	GET ITEM JUSTIFICATION SHEET	<b>—</b>	4	February 1995	
Appropriation/Budget Activity: Other Procurement, Army Activity 3, Other Support Equipment	ity:Other Pro quipment	curement, Arn	۲۰	P-1 Item Nomenclature: OPA Initial Spares (MY	P-1 Item Nomenclature: OPA Initial Spares (MY0035)	(2)		
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (MILLIONS)								
			FY 94	FY 95	FY 96	FY 97		
FIREFINDER			0.0	0.7	0.0	0.0		,
SIGNAL WARFARE EQUIP			0.0	11.1	0.0	0.0		•
PM EW/RSTA PEO IEW			0.0	0.1	0.0	0.0		
GROUND BASED COMMON SENSOR	SENSOR		0.0	0.0	0.0	0.0		
EUCOM CMD CTRS			0.0	0.2	0.0	0.0		
OPTADS MCS			0.0	0.0	0.0	0.0		
POWER PROJECTION C4			0.0	1.3	0.0	0.0		
DMS ARMY			0.0	0.2	0.0	0.0		,
CORPS/THEATER ADP SVC CTR (CTASC)	CTR (CTASC)		0.0	1.2	0.0	0.0		
STAMIS TACTICAL COMPLITEDS	TEDS		0.0	0.2	0.0	0.0		
TACCIMS			9.0	., c	9.0	9.0		
WW TECH CON IMP PROG (WWTCIP)	(WWTCIP)		0.0	0.1	0.0	0.0		
TMDE MODERNIZATION (TMOD)	AOD)		0.0	2.5	0.0	0.0		
STRATEGIC C2 FACILITIES			0.0	0.2	0.0	0.0		
COMSEC INFO SECURITY			0.0	3.8	0.0	0.0		
TROJAN (TIARA)			0.0	1.6	0.0	0.0		
AN/TYQ-52			0.0	1.0	0.0	0.0		
NBC PROTECTION SYSTEM			0.0	0.2	0.0	0.0		
NBC DECON SYSTEM			0.0	0.2	0.0	0.0		
NBC CONTAMINATION AVOID	<u>Q</u>		0.0	0.8	0.0	0.0		•
P-1 SHOPPING LIST ITEM NO.:	0: 170			PAGE NO 2	of 3	ļu	Evhihit D.40	
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Keports Control Symbol DD-COMP (AR) 1092		BUDGET	BUDGET ITEM JUSTIFICATION SHEET	CATION SHEE	<b>—</b>		February 1995	5	1
Appropriation/Budget Activity: Other Activity 3, Other Support Equipment	ity:Other Pro julpment	Procurement, Army	ц	P-1 Item Nomenclature: OPA Initial Spares (MY0	P-1 Item Nomenclature: OPA Initial Spares (MY0035)	2)			
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 04	
QUANTITY									T
COST (MILLIONS)									T
			FY 94	FY 95	FY 96	FY 97			
DETECTING SET, MINE, AN/PS-12 ITEMS LESS THAN \$2.0M (CONST EQU ITEMS LESS THAN \$2.0M (MHE) SMOKE OBSCURE TARGET	JPS-12 CONST EQUIP) MHE) F		0.00	0.0 0.3 0.3	0.0 0.0 0.0 0.0	0:0 0:0 0:0			
	TOTAL		0.0	68.0	0.0	0.0			
		. •							
P-1 SHOPPING LIST ITEM NO.:	4O.: 170			PAGE NO.: 3 of	of 3		Exhibit P-40		٦.

		S	UNCLASSITED				
REPORTS CONTROL STABOL DD-COMP(AR)1092	9 0 0 8	BUDGET ITEM J	EM JUSTIFICATION SHEET	ION SHEET		DATE FEBRUARY 1995	
APPROPRIATION / BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE	HENCLATURE			
Other Procurement, Army, Activity 3 Other Support Equipment			TRACTOR VAPOR	VAPOR			(MA8975)
	FY 94	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01

DESCRIPTION: Funds will provide for the replacement of critical components that are approaching end of shelf-life and new equipment required to maintain mission capability for a classified program. Current industry practice of minimizing inventory and manufacturing only to order has caused revisions in operational plans that formerly depended on rapid procurements. Reduced demand for heavy industrial process components and the subsequent shrinkage of the U.S. manufacturing base in casting, forging, and fabrication have caused lead times to exceed the acceptable mobilization period. Procurement of these components will ensure successful mission responses to emergency situations.

5.0 / 2.7

9.9

2.8

COST(IN MILLIONS)

QUANTITY

Page of Pages	EXHIBIT P-40
	UNCLASSIFIED
P-1 SHOPPING LIST	ITEM NO 171 PAGE NO 1 OF 1
	DD Form 2454, JUL 88

BUDGET ITEM JUSTIFICATION SHEET P-1 ITEM NOMENCLATURE NATURAL GAS UTILIZATION APPROPRIATION / BUDGET ACTIVITY Other Procurement, Army, Activity 3 Other Support Equipment REPORTS CONTROL SYMBOL DD-COMP(AR)1092

DATE FEBRUARY 1995

(MA9760)

	76 Ad	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00/01
QUANTITY							
COST(IN MILLIONS)	10.0	2.5					
DESCRIPTION: Funds the procurement of natural gas chillers and installations.	of natural gas chil		developmental natu	ral gas fuel cells	other non-developmental natural gas fuel cells for air conditioning and power generation at military	gand power generati	ion at military

DD Form 2454, JUL 88

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